

QY 346 SIILVL 351
Db 349 NVIVSL 354

RESULT 2

US-09-971-020A-3

Sequence 3, Application US/09971020A

Patent No. 6734342

GENERAL INFORMATION:

APPLICANT: Sano, Hiroshi

APPLICANT: Kusano, Tomonobu

TITLE OF INVENTION: Theobromine Synthase Polypeptide of Coffee Plant and the

FILE REFERENCE: 026350-068

CURRENT APPLICATION NUMBER: US/09/971,020A

PRIOR APPLICATION NUMBER: 2001-10-05

PRIOR FILING DATE: 2000-10-06

NUMBER OF SEQ ID NOS: 22

SOFTWARE: FastSeq for Windows Version 4.0

SEQ ID NO 3

LENGTH: 385

TYPE: PRT

ORGANISM: Coffea arabica

US-09-971-020A-3

Query Match 35.7%; Score 658.5; DB 4; Length 385;

Best Local Similarity 38.2%; Pred. No. 1.8e-61;

Matches 150; Conservative 74; Mismatches 106; Indels 63; Gaps 11;

QY 2 MNRGEGSSYAQNSFTQVASMALPENNVELTFRSDPH--LQALNADLGCAGPNT 59

Db 9 MNGGEGASAYAKNSFNQVLAKVKPVLQCVGELRLANLPINIKCIKADLGCAGPNT 68

QY 60 ---FAVISTIKMKKCKRELNCOTLE--LOYVINDLFGNDENTLTKGLSS----- 105

Db 69 LITVMDIVQSIDVROQEMK--NELRPTIQLVFLTDLPQNDPNSVFMLLPSFYRKLKENG 126

QY 106 EVIGKCEBPCYVWGVPSFHGRLPFRNSLHLVHSSYSVHMLTQAPKGLTSREGALANK 165

Db 127 RKGIS-----CLIAMPGSFHGRLPFESNMHFLHSSYSLOQLSGVPSGLVTELGITANK 180

QY 166 GKIIYSKTPPVREAYISQFHEFTMFLNARSGEVNPGCMVL--ILRQCSDSQDMQ 223

Db 181 RSIYSSKSPPPVQKAYLDQFTKDTFTPLRMSEBLSRGRMLTLCICKGDCDGPV--- 237

QY 224 SCFTWELAMALAEIVSQGLIDEDKLDFTNIPSYFASLEEVKDIYERDGSFTIDHIGFD 283

Db 238 ---TWDLLEMAINDLVAGRLGEKLDSEFNVPIYASVEVKCMVEEGSFELLYLQTFK 294

QY 284 L-----DEVQGE-----NDKVRGGEKFTKVRATFPTIISNOGPEIMDKLYDKF 329

Db 295 LRYDAGFSIDDDCVKSHSPYSDEHANAHAVALIRSVETPLASHFGELIIPDIFHRF 354

QY 330 -----THIVSDLEAKLPKTTSI 347

Db 355 ATNNAKVIIRLKGFGYNNLIIS--LAKKPEKSDI 365

RESULT 3

US-09-971-020A-5

Sequence 5, Application US/09971020A

Patent No. 6734342

GENERAL INFORMATION:

APPLICANT: Sano, Hiroshi

APPLICANT: Kusano, Tomonobu

TITLE OF INVENTION: Theobromine Synthase Polypeptide of Coffee Plant and the

FILE REFERENCE: 026350-068

CURRENT APPLICATION NUMBER: US/09/971,020A

CURRENT FILING DATE: 2001-10-05

PRIOR APPLICATION NUMBER: JP 2000-307,149

PRIOR FILING DATE: 2000-10-06

NUMBER OF SEQ ID NOS: 22

SOFTWARE: FastSeq for Windows Version 4.0

SEQ ID NO 5

LENGTH: 385

TYPE: PRT

ORGANISM: Coffea arabica

US-09-971-020A-5

Query Match 35.2%; Score 649.5; DB 4; Length 385;

Best Local Similarity 38.5%; Pred. No. 1.7e-60;

Matches 151; Conservative 71; Mismatches 109; Indels 61; Gaps 11;

QY 2 MNRGEGSSYAQNSFTQVASMALPENNVELTFRSDPH--LQALNADLGCAGPNT 59

Db 9 MNGGEGASAYAKNSFNQVLAKVKPVLQCVGELRLANLPINIKCIKADLGCAGPNT 68

QY 60 ---FAVISTIKMKKCKRELNCOTLE--LOYVINDLFGNDENTLTKGLSS-----E 106

Db 69 LITVMDIVQSIDVROQEMK--NELRPTIQLVFLTDLPQNDPNSVFMLLPSFYRKLKENG 127

QY 107 EVIGKCEBPCYVWGVPSFHGRLPFRNSLHLVHSSYSVHMLTQAPKGLTSREGALANK 166

Db 128 RKGIS-----CLIAMPGSFHGRLPFESNMHFLHSSYSLOQLSGVPSGLVTELGITANK 181

QY 167 KIIYSKTPPVREAYISQFHEFTMFLNARSGEVNPGCMVL--ILRQCSDSQDMQ 224

Db 182 RSIYSSKSPPPVQKAYLDQFTKDTFTPLRMSEBLSRGRMLTLCICKGDCDGPV--- 237

QY 225 CFTEWELAMALAEIVSQGLIDEDKLDFTNIPSYFASLEEVKDIYERDGSFTIDHIE--- 280

Db 238 ---TWDLLEMAINDLVAGRLGEKLDSEFNVPIYASVEVKCMVEEGSFELLYLQTFK 295

QY 281 ---GFGLD-----SVMQNDKVRGGEKFTKVRATFPTIISNOGPEIMDKLYDKF- 329

Db 296 RYDAGFSIDDDCVKSHSPYSDEHANAHAVALIRSVETPLASHFGELIIPDIFHRF 355

QY 330 -----THIVSDLEAKLPKTTSI 347

Db 356 TNAKVIIRLKGFGYNNLIIS--LAKKPEKSDI 365

RESULT 4

US-09-653-375B-9

Sequence 9, Application US/09653375B

Patent No. 6538922

GENERAL INFORMATION:

APPLICANT: Doudareva, Natalia

APPLICANT: Murfitt, Lisa M.

APPLICANT: Mann, Craig

TITLE OF INVENTION: Methods and Compositions for Production of Floral Scent

FILE REFERENCE: 76-02

CURRENT APPLICATION NUMBER: US/09/653,375B

CURRENT FILING DATE: 2000-09-01

PRIOR APPLICATION NUMBER: US 60/152,393

PRIOR FILING DATE: 1999-09-03

NUMBER OF SEQ ID NOS: 10

SOFTWARE: PatentIn Ver. 2.0

SEQ ID NO 9

LENGTH: 371

TYPE: PRT

ORGANISM: Arabidopsis thaliana

US-09-653-375B-9

Query Match 34.1%; Score 630; DB 4; Length 371;

Best Local Similarity 37.3%; Pred. No. 1.9e-58;

Matches 135; Conservative 84; Mismatches 131; Indels 12; Gaps 5;

QY 1 FMNRGEGSSYAQNSFTQVASMALPENNVELTFRSDPHLQALNADLGCAGPNTF 60

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Db      11 YMTGDKGTSYARNSSLOKASDFAKHITLFTLQGLY-KETPKSKLGIADGCSGPNLT 69
Qy      61 AVIST-IRKMMKKRELANCOTL-ELQVYLANDLFENDFTLFGKLSSEVIGNK----- 111
Db      70 STIDFIVTGVAAHREIPIQPLPEFSIFLNDLPENDFIFKSLPDPFIEIKRNNNGD 129
Qy      112 CEEVPCYMGVGVSGFPHGLFPFNSLHLVHSSSVHMLTQAPKGLSREGALNKGKIYIS 171
Db      130 CPSV--FLAAYPGSYGRLFPENTIHFYASHSLHMLSVLPALVDBQCKSINKKCVSIC 187
Qy      172 KTSPPVREAYLSQFHEDFTMLNARSQEVVNGCMVLILRGQCSDDPSDMQSCFTWEL 231
Db      188 SLSSAVAKAYCSQCKEDPSIFLRCRKMVSGAMVLIILIGREGPDHYDRGNSFFWELL 247
Qy      232 AMAIELVSGILDEDKLDTFNIPSYFASLEVKQIVEROGSDFTDHIIEGFLDSVENOE 291
Db      248 SRSIADLVAQGETEBEKDSDYDMHFYAPSADIEBGEVDKESFELERLEMLVKDKGNT 307
Qy      292 NDKWVRGKFTKVRVAFTEPIISNOGPEIMDKLYDKFTHIVSDLEAKLPKTSIILVL 351
Db      308 EGDLSYGAVAKTVAVQESMLVQHFGKILDKLPDYICRMVDELAKEDIRPIITVVVL 367
Qy      352 SK 353
Db      368 RK 369

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RESULT 5
US-09-653-375B-2
; Sequence 2, Application US/09653375B
; Patent No. 6558922

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; GENERAL INFORMATION:
; APPLICANT: Doudeleva, Natalia
; APPLICANT: Mufitlic, Lisa M.
; TITLE OF INVENTION: Methods and Compositions for Production of Floral Scent
; TITLE OF INVENTION: Compounds
; FILE REFERENCE: 76-02
; CURRENT APPLICATION NUMBER: US/09/653,375B
; CURRENT FILING DATE: 2000-09-01
; PRIOR APPLICATION NUMBER: US 60/152,393
; PRIOR FILING DATE: 1999-09-03
; NUMBER OF SEQ ID NOS: 10
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 2
; LENGTH: 364
; TYPE: PRT
; ORGANISM: Antirrhinum majus
US-09-653-375B-2

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Query Match      33.6%; Score 621.5; DB 4; Length 364;
Best Local Similarity 38.1%; Pred. No. 1.5e-57;
Matches 140; Conservative 64; Mismatches 128; Indels 35; Gaps 8;

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Qy      5 GEGESSYVQNSFTQOVASMAQPALENAVETL-----FSRDFHQAALNAADLGAAGN 58
Db      14 GDGETSYVANNGLQGVMMKSLHLVDETLKDIIGHVGPKCFKMM-----DMGCGSGN 68
Qy      59 TPAVISTIKRMMKKRELANCOTL-ELQVYLANDLFENDFTLFGKLSSEVIGNKCEEVPC 117
Db      69 ALLVMSGINTIEDYTEKININELPEFEVFLNDLDNDENNFKLSLSE-NQN-----C 121
Qy      118 YMGVPGSFHGLFPFNSLHLVHSSSVHMLTQAPKGLSREGALNKGKIYISTSPV 177
Db      122 FYVGLPGSFYGRLLPKKSLHFAYSYSIHWLSQVPEGLEDN-----NQNIYMATESPPE 176
Qy      178 VREALSGPHEDFTMLNARSQEVVNGCMVLILRGQCSDDPSDMQSCFTWELLMATAE 237
Db      177 VKAKAKYERDFTFLKLRGEIIVPGRMVLTNGRVEDSSDOLAIFTLAKTLVD 236
Qy      238 LVSQGLIEDKLDFTNIPSYFASLEVKQIVEROGSDFTDHIIEGFLD--DSVEMQEND-- 293

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Db      237 MVAEGLVMDLDSFNIPDIYSPCTREVEAALISEGFTLDRLEVRVCMDSADYTDQDQ 296
Qy      294 -----KMWGKRTKVRVAFTEPIISNOGPEIMDKLYDKFTHIVSDLEAKLPKTS 346
Db      297 QDPSIFGKQSGKVVADCVRAITBEMPLASHGSTIMDLPGYAKKIVBHLSEVNSYFS 356
Qy      347 IIVLSK 353
Db      357 IIVLSLR 363

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RESULT 6
US-09-971-020A-7
; Sequence 7, Application US/09971020A
; Patent No. 6734342

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; GENERAL INFORMATION:
; APPLICANT: Sano, Hiroshi
; APPLICANT: Kusano, Tomomobu
; APPLICANT: Kozumi, No. 6734342omu
; TITLE OF INVENTION: Theobromine Synthese Polypeptide of Coffee Plant and the
; TITLE OF INVENTION: Gene Encoding Said Polypeptide
; FILE REFERENCE: 026350-068
; CURRENT APPLICATION NUMBER: US/09/971,020A
; CURRENT FILING DATE: 2001-10-05
; PRIOR APPLICATION NUMBER: JP 2000-307,149
; PRIOR FILING DATE: 2000-10-06
; NUMBER OF SEQ ID NOS: 22
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 7
; LENGTH: 372
; TYPE: PRT
; ORGANISM: Coffea arabica
US-09-971-020A-7

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Query Match      33.6%; Score 620.5; DB 4; Length 372;
Best Local Similarity 38.1%; Pred. No. 2e-57;
Matches 144; Conservative 71; Mismatches 116; Indels 47; Gaps 10;

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Qy      2 MNRGESSYVQNSFTQOVASMAQPALENAVETLFSRDFH--LOALNAADLGAAGNPT 59
Db      9 MNGGSDTSYVAKNSYNDLVAKVPVLEQCRLRANLPINIKCIVADLGCASGPNPT 68
Qy      60 FA-----VISTIKRMMKKRELANCOTL-ELQVYLANDLFENDFTLFGKLS----- 105
Db      69 LITVADIVQSIDKVGQEKNELRPT--IQFLNDLFENDRNSVYKLLPSFYKLEKENG 126
Qy      106 EVIGNKCEVPCYVGVSGFPHGLFPFNSLHLVHSSSVHMLTQAPKGLSREGALNKG 165
Db      127 RKIGS-----CLIGAMPGSFYSRLFPESMHPHLSYCLQWLSQVPSGLVTGLISTNK 180
Qy      166 GKIIYISTSPVVRVAYLSQFHEDFTMLNARSQEVVNGCMVL--ILRGQCSDDPSDMQ 223
Db      181 GSIVSSKSRPVOQAYLDQFTKQFTFLRHSEBLFPHGRMLTCLICKGYEL-----DAR 236
Qy      224 SCFTWELAMAYIAELVSGILDEDKLDTFNIPSYFASLEVKQIVEROGSDFTDHIIE--- 280
Db      237 NAI--DLLEMAINDLVGCHLEEKLDSPNLPYIIPSAEYKCIYEEGSPFIIYLETFK 294
Qy      281 -----GPDLSVENQENDKWRGKFTKVRVAFTEPIISNOGPEIMDKLYDKFTHIVS 335
Db      295 VLYDAGFSID-----DEHIAEYVASSVAVVEPIILASHFGAIIIDIPIHRAFKHAK 347
Qy      336 DLEALPPTTSIILVLSK 353
Db      348 VLPKGGPFYNNLIISLAK 365

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RESULT 7
US-09-971-020A-1
; Sequence 1, Application US/09971020A
; Patent No. 6734342
; GENERAL INFORMATION:
; APPLICANT: Sano, Hiroshi

```

APPLICANT: Kusano, Tomonobu
APPLICANT: Koizumi, No. 6734342om
TITLE OF INVENTION: Theobromine Synthase Polypeptide of Coffee Plant and the
TITLE OF INVENTION: Gene Encoding said Polypeptide
FILE REFERENCE: 026350-068
CURRENT APPLICATION NUMBER: US/09/971,020A
CURRENT FILING DATE: 2001-10-05
PRIOR APPLICATION NUMBER: JP 2000-307,149
PRIOR FILING DATE: 2000-10-06
NUMBER OF SEQ ID NOS: 22
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 1
LENGTH: 378
TYPE: PRT
ORGANISM: Coffea arabica
US-09-971-020A-1

Query Match 33.2%; Score 614; DB 4; Length 378;
Best Local Similarity 36.2%; Pred. No. 1e-56;
Matches 140; Conservative 78; Mismatches 111; Indels 58; Gaps 11;
QY 2 MRGEGESSYAONSSFTQVASMADPALNNAVETLFSRDPH--LQALNADIGCAAGPNT 59
DB 9 MRGEGDTSYAKKASTNALALAKV-KPFLQCIKRELLRANLPINIKCIKIVADIGCASGPNT 67
QY 60 FA---VISTIKRMMEKKCREINQOTLEQVYLNDFGNDPNTLPFGKLS----- 105
DB 68 LITVRIVQSIDKVGGEKNELEPRT--IQIFLNDLFQDNFNSVRLKLPFRKLEKENG 125
QY 106 EYGNKCEVPYCVMGVPSFHGRLLFPNNSHLVHSSVHMLTQAPKGLTSREGALANK 165
DB 126 RKIGS-----CLISAMPGSFYGRLPFESMHFLHSCVSHVLSQVPSGLVTELDIGANK 179
QY 166 GKIIYSKTSPPVREAYLSQFHEFTMFLNARSQVNVNCGVLT--ILRGQCSPSDMQ 223
DB 180 GSIVSSKGRPVQCAIYIDQFTKDTTLRLHSKELFSRGRLTLCTICKVDFEPPNPL- 238
QY 224 SCFTWELIAMAIAELVSOGLIDEDKLDFTNIPSPYASLEEVNDIVERDGSFTIDHIE--- 280
DB 239 -----DLIDMAINDLIVGLLEEKLDSEFNIPFPSPASLEVYCVIEEBSGCEILYLETFK 293
QY 281 -----GFDLSEVQENDKVRGKEFTVVRATFPITISNOGPEIMDKLYDK----- 328
DB 294 AHYDAFISIDDDPYRSHQIAEYVASLIRSVYEPILASHFGAIMEPLDHLRLAKHAAK 353
QY 329 -----FTHIVSDLEAKLPEKTSI 347
DB 354 VLHMGKGCYNLIIS--LAKKPEKSDV 378

RESULT 8
US-09-653-375B-10
Sequence 10, Application US/09653375B
Patent No. 6558922
GENERAL INFORMATION:
APPLICANT: Doukareva, Natalia
APPLICANT: Murfitt, Lisa M.
APPLICANT: Mann, Craig
TITLE OF INVENTION: Methods and Compositions for Production of Floral Scent
FILE REFERENCE: 76-02
CURRENT APPLICATION NUMBER: US/09/653,375B
CURRENT FILING DATE: 2000-09-01
PRIOR APPLICATION NUMBER: US 60/152,393
PRIOR FILING DATE: 1999-09-03
NUMBER OF SEQ ID NOS: 10
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 10
LENGTH: 359
TYPE: PRT
ORGANISM: Arabidopsis thaliana
US-09-653-375B-10

Query Match 30.9%; Score 570; DB 4; Length 359;
Best Local Similarity 36.9%; Pred. No. 4.6e-52;
Matches 136; Conservative 64; Mismatches 137; Indels 32; Gaps 10;
QY 2 MRGEGESSYAONSSFTQVASMADP-ALENAVETLFSRDPHQLQALNADIGCAAGPNT 60
DB 1 MRGEGDTSYAKKASTNALALAKV-KPFLQCIKRELLRANLPINIKCIKIVADIGCASGPNT 67
QY 61 AVISTIKRMMEKKCREINQOTLEQVYLNDFGNDPNTLPFGKLS-----GLSEYGNKCE 113
DB 60 LAMSAIATIMESYQOMSKNPEIDCYINDLPENDPNTTFLKFSFOEKLPEVYK-- 116
QY 114 EYPCYMGVPSFHGRLLFPNNSHLVHSSVHMLTQAPKGLTSREGALANKGIYISKT 173
DB 117 --MFVSGVPSFYSRLFPKSLHFVHSAFSLIHWLSRIPDLGS-----NTKSIHKYP 167
QY 174 SPVYREAYLSQFHEFTMFLNARSQVNVNCGVLT--ILRGQCSPSDMQSCF-TWELLA 232
DB 168 YPSNVYSYLNQFKIDISFLKMRSEEVHNGHMLTFVGKVSDTLS-KDCFGVMSLIS 226
QY 233 MAIAELVSOGLIDEDKLDFTNIPSPYASLEEVNDIVERDGSFTIDHIEGFD-----LDS 286
DB 227 DCLIDLASEGFVNDSWKSFNMPFPYNNEEVREFLIKESFETTKLEKFDHVPYKIDR 286
QY 287 VENQEND--KVRGKFTKYVRATFPITISNOGPEIMDKLYDKFTHIVVSDLE-AKLPK 343
DB 287 EEDDEOSLOLEAGIKHASMARCTTEPLLVAFHGDALIEBVFNKAHYMAKYLSVSNHR 346
QY 344 TTSIIIVLS 352
DB 347 NMTLIVIVS 355

RESULT 9
US-09-107-532A-4267
Sequence 4267, Application US/09107532A
Patent No. 6583275
GENERAL INFORMATION:
APPLICANT: Lynn A Doucette-Stamm and David Bush
TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO
ENTEROCOCCUS FAECIUM FOR DIAGNOSTICS AND THERAPEUTICS
NUMBER OF SEQUENCES: 7310
CORRESPONDENCE ADDRESS:
ADDRESSER: GENOME THERAPEUTICS CORPORATION
STREET: 100 Beaver Street
CITY: Waltham
STATE: Massachusetts
COUNTRY: USA
ZIP: 02154
COMPUTER READABLE FORM:
MEDIUM TYPE: CD/ROM ISO9660
COMPUTER: PC
OPERATING SYSTEM: <Unknown>
SOFTWARE: ASCI
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/107,532A
FILING DATE: 30-Jun-1998
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 60/085,598
FILING DATE: 14 May 1998
APPLICATION NUMBER: 60/051571
FILING DATE: July 2, 1997
ATTORNEY/AGENT INFORMATION:
NAME: Ariniello, Pamela Denke
REGISTRATION NUMBER: 40,489
REFERENCE/DOCKET NUMBER: GTC-012
TELECOMMUNICATION INFORMATION:
TELEPHONE: (781)893-5007
TELEFAX: (781)893-8277
INFORMATION FOR SEQ ID NO: 4267:
SEQUENCE CHARACTERISTICS:
LENGTH: 913 amino acids
TYPE: amino acid

TOPOLOGY: linear
MOLECULE TYPE: protein
HYPOTHEICAL: YES
ORIGINAL SOURCE:
ORGANISM: Enterococcus faecium
FEATURE:
NAME/KEY: misc feature
LOCATION: (B) LOCATION 1..913
SEQUENCE DESCRIPTION: SEQ ID NO: 4267
US-09-107-532A-4267

Query Match 6.2%; Score 114.5; DB 4; Length 913;
Best Local Similarity 21.3%; Pred. No. 0.0083;
Matches 73; Conservative 51; Mismatches 116; Indels 101; Gaps 17;

QY 71 EKRCNLCCQLE-LQVYLAND-LFGNDPNTL-----FKGLSSEVIG 109
DB 5 EKRGRGSMOSIKNTLRLLDWMKRIFKNPATLLIIMIPSLYAMFNIAL-WDPVG 63
QY 110 NKCE-EVPCYVMGVGSGFHR--LFRNSLHVSSYSVHWLTQAPKGLTSREG--ALN 164
DB 64 NTGELPIAVYADKPAEFGQKVAIGEOVIESLHKQKLGW---QFVDSKEQLEDGVR 118
QY 165 KGIYISKTSPPVVREAVLSQFHEDFTWF-----LNARSGEVVPGCM 207
DB 119 SGKYVAGIYLP-----KQSEDLSTSGDIKKPKIEYTVNKNIAIAPIKIDKA- 169
QY 208 VLIRGROCSDPSMOSCFTEMLMAIAELVSGQLEIDDKIDTN-----IPSYASLE 262
DB 170 -----SSIOSITNEFFITASTL-----LKVNEIGYDIDTIVLSIN 207
QY 263 EVKDIVRDSFTTDHIGFPLDSVEMOE-----NDKVRGSKFT---KVRATPEPI 313
DB 208 KVKDMITLSTDE-NLDTTIGYTKQVLELOSQLEPEIKLANKANEFVDYIPKVDENGEKVA 266
QY 314 SNOFGEIMDKLYDKFTHIVSDLEAKLPKTSIILVLSKIDG 356
DB 267 LNDKMEPELKDQAK-----IILDQEKPIEIQINAKQLAIEDIG 303

RESULT 10
US-09-583-110-3100
Sequence 3100, Application US/09583110
Patent No. 6699703
GENERAL INFORMATION:
APPLICANT: Lynn Doucette-Stamm et al.
TITLE OF INVENTION: Nucleic Acid and Amino Acid Sequences Relating to Streptococcus
FILE REFERENCE: PAT00-07A
CURRENT APPLICATION NUMBER: US/09/583,110
CURRENT FILING DATE: 2000-05-26
PRIOR APPLICATION NUMBER: US 09/107,433
PRIOR FILING DATE: 1998-06-30
PRIOR APPLICATION NUMBER: US 60/085,131
PRIOR FILING DATE: 1998-05-12
PRIOR APPLICATION NUMBER: US 60/051,553
PRIOR FILING DATE: 1997-07-02
NUMBER OF SEQ ID NOS: 5322
SEQ ID NO 3100
LENGTH: 915
TYPE: PRT
ORGANISM: Streptococcus pneumoniae
US-09-583-110-3100

Query Match 5.5%; Score 101; DB 4; Length 915;
Best Local Similarity 20.3%; Pred. No. 0.23;
Matches 74; Conservative 62; Mismatches 130; Indels 98; Gaps 17;

QY 8 ESSYQNSGFTQVASMOPALENAVETLFSRDFHQLALNAADLCAAGPNTFAVISTIK 67
DB 2 EBNY--NNSITQ-----IKNSIKR-----NSLVLVGAGISANSNLPTWG 39
QY 68 RMMKKCKELNC-----QTLQVYLANDLFGNDPNTLFGKLSSEVIGNKCEVPCYVMG 121

DB 40 ELIOSLKKELNIPEERTDSPRIAQYVDTGKNQYT-----KIIIEI-FPKKG 87
QY 122 V--PQSFGRLPFRNSLHVSSYSVHWLTQAPKGLTSREGALANKKIYISKISPPVVR 179
DB 88 LSKPELKLLEKIAKPKHITTYNDSLLESQFESGLKRYNVAEDKDIPTYS----- 140
QY 180 EAVLSQFHEDFTM-----FLNARSGEVVPGCMVILIRGROCSDPSD 221
DB 141 ERYLKHAGDPSKKNIVLAKEDDYDYLHNFPMISTLIOSLIMNHTLTV--GYSLS-D-ST 197
QY 222 MOSCFTEMLMAIAELVSGQLEIDDKIDTNIPSYASLE---VKDIVRDSFTTD 277
DB 198 FNSIF-----RMIQNTFKLDKQV--AFYTPREPSMIREYKKGQIFLIS 241
QY 278 HIEGDLDSVEMOEKDKVREKFKVVRATPEPISQFPEIMDKYDKFTH--VUSD 336
DB 242 NEENIGQETSEKQ-NKLYCRTKDFLEVLSENRSODVNN-----ADDLNQLAFLDRLSF 294
QY 337 LEAK 340
DB 295 IDAK 298

RESULT 11
US-09-586-106D-161
Sequence 161, Application US/09586106D
Patent No. 6720479
GENERAL INFORMATION:
APPLICANT: Wright, David A.
APPLICANT: Voytas, Daniel F.
TITLE OF INVENTION: PLANT RETROELEMENTS AND METHODS RELATED THERETO
FILE REFERENCE: P-1065A
CURRENT APPLICATION NUMBER: US/09/586,106D
CURRENT FILING DATE: 2003-02-07
PRIOR APPLICATION NUMBER: 60/087,125
PRIOR FILING DATE: 1998-05-29
PRIOR APPLICATION NUMBER: 09/322,478
PRIOR FILING DATE: 1999-05-28
NUMBER OF SEQ ID NOS: 190
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 161
LENGTH: 254
TYPE: PRT
ORGANISM: Pisum sativum
US-09-586-106D-161

Query Match 5.3%; Score 97.5; DB 4; Length 254;
Best Local Similarity 21.4%; Pred. No. 0.07;
Matches 42; Conservative 35; Mismatches 60; Indels 59; Gaps 9;

QY 15 SSTQOVASMAOPALENAVETLFSRDFHQLALNAADLCAAGPNTF--AVISTIKRMMEX 72
DB 97 SGYNQIVV-----APEDEKTAFTCPYGIYFRRMPFGLCNAAPATFORCMTSIFSDMLEK 151
QY 73 KRCNLCCQLE-LQVYLAND-LFGNDPNTLFGKLSSEVIGNKCEVPCYVMGVGSGFHR 130
DB 152 -----YMKVFMDFSVFGSFDNCLANLS--LVLRQCELT----- 184
QY 131 FPRNSLHVSSYSVHWLTQAPKGLT-----SREGALANKKIYISKISPPVVR----- 180
DB 185 -----NIVLWMEKCHFNQV--EGIVLGHKISHKIGIEVDKAKVAVIANLPPVNEKGI 236
QY 181 -----AVLSQFHEDFT 191
DB 237 FLGHAGFYRRRIKDF 252

RESULT 12
US-08-496-944-2
Sequence 2, Application US/08496944
Patent No. 6040496
GENERAL INFORMATION:

```

; APPLICANT: Law, Marcus D
; APPLICANT: Dietz, Jon M
; TITLE OF INVENTION: Use of Translationally altered RNA to
; TITLE OF INVENTION: Confer Resistance to Maize Dwarf Mosaic Virus and Other
; NUMBER OF INVENTIONS: 8
; NUMBER OF SEQUENCES: 8
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: CIBA-Geigy Corporation
; STREET: 7 Skyline Drive
; CITY: Hawthorne
; STATE: NY
; COUNTRY: USA
; ZIP: 10532
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.30B
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/496,944
; FILING DATE:
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Bimer, James Scott
; REGISTRATION NUMBER: 36,129
; REFERENCE/DOCKET NUMBER: CGC 1814
; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 2763 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-08-496-944-2

```

```

Query Match
Best Local Similarity 5.3%; Score 97.5; DB 3; Length 2763;
Matches 73; Conservative 58; Mismatches 144; Indels 93; Gaps 17;

QY 5 GEGESSYAQNSFTQOVASMAQPALENAYE-TLFSRDFHLQALNAADIGCAAGPNTFAVI 63
DB 1972 GKVDKRLNRAAFIKISAKRIYIGETIYDFRAVO-----RVV 2013
QY 64 STIKRMMEKCC-----REINCOLEQVYNDLFGNDFNTLFGKLS-----EVIGKCEE 114
DB 2014 NIKKNVMOOCYVTVDEEIPFSLINMAVGLYGGKKKNFENNSSDKEIYWRSCER 2073
QY 115 VPCYVGV-PGSFHRGLPRNSLH-----VHSSYSVH--- 146
DB 2074 INXQIGVNGSLKAEIRPIEKTMLNKRRTTAABLETLGKVCVDENNQFYSHLLEG 2133
QY 147 -WLQAPK--GLTSEGLANKKIY-----ISKTSPPVREAYLS---QFHEDE--- 190
DB 2134 PWTGITTFYEGGMNLEKLEPEGWVYCOADGSDPSITPFLINAVANIRLQFHEMDIG 2193
QY 191 -TMFLNARSQEV-----VPGCMVLLRGRCSPDMQSCFTWELLAMAIELVSGGLT 244
DB 2194 AQMLKNLTYETIYPIALPDGSIYKKEFGKNSGQPSVTVDNTLMTIAFYNYA-MLSG-I 2251
QY 245 DEDKLDPTNINISYPASLEEVNDIVERDGSFTIDHIE-----GPDLDSEVENQENDKX- 295
DB 2252 KEEED--NCCRMFANGBDLLAVHPDFEILDFQNHFNGLNFEFTSRITDKSELWF 2309
QY 296 --VRGEKF 301
DB 2310 MSTRGIKY 2317

```

```

RESULT 13
US-09-586-106D-143
; Sequence 143, Application us/09586106D
; Patent No. 6720479
; GENERAL INFORMATION:
; APPLICANT: Wright, David A.

```

```

; APPLICANT: Voytas, Daniel F.
; TITLE OF INVENTION: PLANT RETROELEMENTS AND METHODS RELATED THERETO
; FILE REFERENCE: P-1065A
; CURRENT APPLICATION NUMBER: US/09/586,106D
; CURRENT FILING DATE: 2003-02-07
; PRIOR APPLICATION NUMBER: 60/087,125
; PRIOR FILING DATE: 1998-05-29
; PRIOR APPLICATION NUMBER: 09/322,478
; PRIOR FILING DATE: 1999-05-28
; NUMBER OF SEQ ID NOS: 190
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 143
; LENGTH: 254
; TYPE: PRN
; ORGANISM: Glycine max
; US-09-586-106D-143

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Query Match
Best Local Similarity 5.1%; Score 94; DB 4; Length 254;
Matches 46; Conservative 32; Mismatches 76; Indels 54; Gaps 9;

QY 2 NNRGESSYAQNSFTQOVASMAQPALENAYETLFSRDFHLQALNAADIGCAAGPNTF- 60
DB 81 LERLAGOSTYLLDGYSGYNQIADVP--DOEKTAFTCFGVAYYRMSFGICNAPTTTQ 138
QY 61 AVISTIKRMMEKCCREINCOLEQVYNDL-LFGNDFNTLFGKLSSEVIGKCEEVPCY 118
DB 139 RCMMAIPADVVKC-----IEVFMDPSYFGSFGNCANT--EKVLRVEE--- 183
QY 119 VMGVPSFHRGLPRNSLH-VHSSYSVHMLTQAPKGL-----TSREGALNKGKIYISK 173
DB 184 -----SNLVINWEKCHPMVQ--EGIMLGHKISRGIKVYKAKIEVIDK 224
QY 174 SPPV-----REAYLSQFHEDEFT 191
DB 225 LPPLVNVGRISFLGHARFYRZFIIDFT 252

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RESULT 14
US-09-248-796A-26663
; Sequence 26663, Application US/09248796A
; Patent No. 6747137
; GENERAL INFORMATION:
; APPLICANT: Keith Weinstein et al
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO CANDIDA ALBICAN;
; FILE REFERENCE: 107196.132
; CURRENT APPLICATION NUMBER: US/09/248,796A
; CURRENT FILING DATE: 1999-02-12
; PRIOR APPLICATION NUMBER: US 60/074,725
; PRIOR FILING DATE: 1998-02-13
; PRIOR APPLICATION NUMBER: US 60/096,409
; NUMBER OF SEQ ID NOS: 28208
; SEQ ID NO 26663
; LENGTH: 697
; TYPE: PRN
; ORGANISM: Candida albicans
; US-09-248-796A-26663

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Query Match
Best Local Similarity 5.1%; Score 93.5; DB 4; Length 697;
Matches 44; Conservative 23; Mismatches 73; Indels 51; Gaps 8;

QY 57 PNTFAVISTIKRMMEKCCREINCOLEQVYNDL-LFGNDF-----NTLFGK 102
DB 129 PNNPEI-----TDKNLEIYIKTIEBPQDTTYRNRFTYKVPDVSYSTQITNLPFG 181
QY 103 LSSEVIGKCEEV-----CYWGVPSGFS-----HGRLEPRNSLH 138
DB 182 LSONSQSKCEDLSSTSPDVSGPQNKNCIDLKVLGKFLNNSSEVFGQISLPLFKLAKML 241
QY 139 VHSSYSVHMLTQAPKGL-TSREGALNKGKIYISKTS---PPVVRAYLSQFHEDEFTMFL 194

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GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: December 22, 2004, 09:24:28 ; Search time 143 Seconds

(without alignment)
890.834 Million cell updates/sec

Title: US-09-577-657a-1

Perfect score: 1847
Sequence: 1 FMNNGEGSSVAQNSSTFQ.....LEAKLPKTSITLVLSKIDG 356Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 1589859 seqs, 357834939 residues

Total number of hits satisfying chosen parameters: 1589859

Minimum DB seq length: 0
Maximum DB seq length: 2000000000Post-processing: Minimum Match 0%
Maximum Match 100%

Listing first 45 summaries

Database :

Published Applications AA:*

- 1: /cgn2_6/ptodata/1/pubpaa/US07_PUBCOMB.pep:*
- 2: /cgn2_6/ptodata/1/pubpaa/PCT_NEW_PUB.pep:*
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- 8: /cgn2_6/ptodata/1/pubpaa/US09_PUBCOMB.pep:*
- 9: /cgn2_6/ptodata/1/pubpaa/US09_PUBCOMB.pep:*
- 10: /cgn2_6/ptodata/1/pubpaa/US09_PUBCOMB.pep:*
- 11: /cgn2_6/ptodata/1/pubpaa/US09_PUBCOMB.pep:*
- 12: /cgn2_6/ptodata/1/pubpaa/US09_PUBCOMB.pep:*
- 13: /cgn2_6/ptodata/1/pubpaa/US10_PUBCOMB.pep:*
- 14: /cgn2_6/ptodata/1/pubpaa/US10_PUBCOMB.pep:*
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- 16: /cgn2_6/ptodata/1/pubpaa/US10_PUBCOMB.pep:*
- 17: /cgn2_6/ptodata/1/pubpaa/US10_PUBCOMB.pep:*
- 18: /cgn2_6/ptodata/1/pubpaa/US11_NEW_PUB.pep:*
- 19: /cgn2_6/ptodata/1/pubpaa/US60_NEW_PUB.pep:*
- 20: /cgn2_6/ptodata/1/pubpaa/US60_PUBCOMB.pep:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	732	39.6	367	US-10-425-114-62093	Sequence 62093, A
2	716.5	38.8	389	US-10-049-187-3	Sequence 3, Appli
3	716	38.8	370	US-10-310-154-528	Sequence 528, App
4	715.5	38.7	373	US-10-424-559-240381	Sequence 240381,
5	715.5	38.7	384	US-10-425-114-72594	Sequence 72594, A
6	713	38.6	359	US-10-049-187-6	Sequence 6, Appli
7	713	38.6	359	US-10-469-993-10	Sequence 10, Appli
8	664	36.0	354	US-10-424-559-198827	Sequence 198827,
9	664	36.0	354	US-10-425-114-55522	Sequence 55522, A
10	658.5	35.7	385	US-09-971-020-3	Sequence 3, Appli
11	658.5	35.7	385	US-10-802-773-3	Sequence 3, Appli
12	649.5	35.2	385	US-09-971-020-5	Sequence 5, Appli
13	649.5	35.2	385	US-10-802-773-5	Sequence 5, Appli

14	625.5	33.9	367	US-10-739-930-9052	Sequence 9052, Ap
15	624.5	33.8	367	US-10-424-559-153131	Sequence 153131,
16	621.5	33.6	364	US-10-469-993-14	Sequence 14, Appl
17	620.5	33.6	372	US-09-971-020-7	Sequence 7, Appli
18	620.5	33.6	372	US-10-623-854A-1	Sequence 1, Appli
19	620.5	33.6	372	US-10-802-773-7	Sequence 7, Appli
20	619.5	33.5	384	US-10-623-854A-7	Sequence 7, Appli
21	614	33.2	378	US-09-971-020-1	Sequence 1, Appli
22	614	33.2	384	US-10-802-773-1	Sequence 4, Appli
23	614	33.2	384	US-10-623-854A-4	Sequence 11831,
24	610	33.0	347	US-10-437-863-11831	Sequence 15933,
25	601	32.5	380	US-10-437-863-159332	Sequence 42992, A
26	587.5	31.8	401	US-10-767-701-42992	Sequence 120065,
27	583.5	31.6	373	US-10-437-863-130365	Sequence 203165,
28	583.5	31.5	378	US-10-437-863-203165	Sequence 529, App
29	582.5	31.5	382	US-10-310-154-529	Sequence 7553, Ap
30	581	31.5	385	US-10-739-930-7553	Sequence 332445,
31	578	31.3	405	US-10-425-115-332445	Sequence 16409,
32	575.5	31.2	375	US-10-437-863-196409	Sequence 530, App
33	575.5	31.2	382	US-10-310-154-530	Sequence 18749,
34	575	31.1	387	US-10-425-115-332449	Sequence 13528,
35	572.5	31.0	370	US-10-437-863-18749	Sequence 178540,
36	563	30.5	447	US-10-437-863-135287	Sequence 102652,
37	561	30.4	387	US-10-437-863-178540	Sequence 209793,
38	557	30.2	374	US-10-437-863-102652	Sequence 63764, A
39	552	29.9	419	US-10-425-115-209793	Sequence 18365,
40	550	29.8	382	US-10-437-863-128365	Sequence 254608,
41	547	29.6	365	US-10-425-115-264608	Sequence 170508,
42	522.5	28.3	240	US-10-437-863-170508	Sequence 163559,
43	521	28.2	345	US-10-437-863-170508	
44	515	27.9	365	US-10-437-863-163559	
45	492.5	26.7	366	US-10-437-863-163559	

ALIGNMENTS

RESULT 1

US-10-425-114-62093
; Sequence 62093, Application US/10425114
; Publication No. US20040034888A1

GENERAL INFORMATION:

; APPLICANT: Liu, Jingdong
; APPLICANT: Zhou, Yihua
; APPLICANT: Kovalic, David K.
; APPLICANT: Screen, Steven E
; APPLICANT: Tabaska, Jack E
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated with
; FILE REFERENCE: 38-21(5313)B
; CURRENT APPLICATION NUMBER: US/10/425,114
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 73128
; SEQ ID NO 62093

LENGTH: 367

TYPE: PRT

ORGANISM: Gossypium hirsutum

; OTHER INFORMATION: Clone ID: LIB3829-008-C2_FLI.pep
US-10-425-114-62093

Query Match

39.6% Score 732; DB 15; Length 367;
Beet Local Similarity 43.3%; Pred. No. 3.8e-64;
Matches 149; Conservative 63; Mismatches 120; Indels 12; Gaps 5;

2 MNRGEGSSVAQNSSTFQQAAPALENVEITFSRPHQALNADLGAAGPNTFA 61
10 MERTGEGSSVAQNSSTFQQAAPALENVEITFSRPHQALNADLGAAGPNTFA 68
62 VISTIKRMKKKRELCOTLEQYVNDLFGNDPNTLFGKLSSEVITNKKCEV----- 115
69 AVSEIISIMYKNCCELRSPLEFRVFNDLPGNDFNTIFOSLPA--FOEKLQENGPKRG 126

	Query Match	38.8%;	Score 716.5;	DB 14;	Length 369;
	Best Local Similarity	39.3%;	Pred. No. 1.5e-62;		
	Matches 148;	Conservative 72;	Mismatches 130;	Indels 27;	Gaps 5;
QY	2	MNRGGESSYANONSFTQQVASMOPALENAVEITLPSFSDPHLQALNMAADLCGAAPNFPA	61		
Dd	9	NNKGGGESSYANKNSTAOGSNIISLG RVNDDEALKKLIMNSNSEISSIGIDLCCSGSPNSLL	68		
QY	62	VISTIKRMMEKKCRELINCGTLELOYUNDLNGDNPNITLFKGLSS--EYIGNKCEBV----	115		
Dd	69	SISNI VDIHNLCPDLDP RPVELRSLNDLSPSNFPNYI CASLPFYRYRVNNKKEGLGFGR	128		
QY	116	----PCYYMGVGSFHGRLPFRNSLIHLVHSSYSVHYMLTQAOKGLTSREGCL-----	NKG 166		
Dd	129	GGGESCFSAVPAGPYGRLLPFRRLSIHPHSSSLSHMISQVD CREAEKDRTTTADLENMG	188		
QY	167	KIYISKTSPPVRREAYILSQFHEDFTWFLINARSOEVVPNGCVALLIRGQCSDFPMOSCF	226		
Dd	189	KIYISKTSPPSKAHAAVALQFGOTDELVLFRSRSELTVP GGNVTLFLGRRLSDPTTESCY	248		
QY	227	TWELLAAIAELVQSGLIDEDKLDTPNIPSTFASLEEKQIVERDGSFFTIDHIEGFDLD-	285		
Dd	249	QWELLAAQLMSMAKEGIIEBEKI DAFNAPYAASSELKAVIEREGSFSIDRIESPIDW	308		
QY	286	---SVENQENDKWVR-----GEKFTKYVARTEPIIISNOPELMDCLYDKTFHIIV	334		

Query Match	38.8%	Score 716;	DB 14;	Length 370;
Best Local Similarity	39.6%	Pred. No. 1.5e-62;		
Matches 147;	Conservative 72;	Mismatches 122;	Indels 30;	Gaps 6;

```

QY      2 NNRRGGESSYKONSSFFQOVASMAQPALENNVETLFSSNDFHLQALNADIGCAAGPPTFA 61
Dd      9 NMGGVGHASYNANNSLLQOKVICLTPTIREBAITSLYCPTVP-RSLAVADLSCSSGGPNTLL 67
QY      62 VISTIKRMEKKCKELNQCOTLELQVYLLNDLFGNDPNTLFFKGLSSRVIKNCKEEV-----P 116
Dd      68 VVSEIRIKIVETLCRELNHNKSPRYKVFLLNDLFGNDPNNIFKSLDS-FKKXLCDEMSGIGP 126
QY      117 CYMNGCVPGSFHGRLEFPNRSIHLVHSSYSVHWLTOAPKGLTRBGLANKGKIITYSKTSP 176
Dd      127 CYFSGVPGSPFYGRVFPNQSLHFVHSSYSGLHWLSKVPBEVDN-----NRGVNYIGSTSP 180
QY      177 VYREAYLSQPFEDFMFLNARSQEVNPGSCVLLILRGQCSDPSPDMSCTFWELMAYIA 236
Dd      181 NVARIYYEQFORDSFLKCRPAEBELVKGGRNVLLTFLGRSDPSSKOGGYWELMAYIALN 240
QY      237 ELVSGGLIDEDKLDLTFNIPSYFASLEEVYKDIIVERDGSFTTIDHIEGFDLDSYEMOENDKMV 296
Dd      241 DMLVGGIIKEBQDLDTFNIPLVTPSPSEVKLEVLKESGPSASNRLE---VSEVNMMAFPDMN 297
QY      297 R-----GEKFTVYVRAFTPEIITSNQGEPIMDKLYDKFTHIYVSDLEAKLP 342
Dd      298 ALEPESERSDTLSDGYNVVAQOMCAVAPBMLVSHGEALIEEVFSRYQOILITDRMSKEQT 357
QY      343 KTTSTIIIVLSK 353
Dd      358 KCINVTYVLLTR 368

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RESUL 4
US-10-424-599-240381
; Sequence 240381, Application US/10424599
; Publication NO. US20040031072A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa Thomas J
; APPLICANT: Kovalic David K
; APPLICANT: Zhou Yihua
; APPLICANT: Cao Yongqei
; TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated With
; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
; FILE REFERENCE: 38-21(53223)B
; CURRENT APPLICATION NUMBER: US/10/424,599
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 285684
; SEQ ID NO 240381
; LENGTH: 373
; TYPE: PRT
; ORGANISM: Glycine max
; FEATURE:
; OTHER INFORMATION: Clone ID: PAT_MRT3847_59091C.1 pep
US-10-424-599-240381

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Query Match	Similarity	38.7%	Score	715.5	DB	15	Length	373	
Best Local	Similarity	41.0%	Pred.	1.7e-62					
Matches	154	Conservative	72	Mismatches	113	Indels	37	Gaps	8
QY	2	MNRGEGSSYAQNSSFTQOVASMAQPALENVETLLFSRDFHLQALNADLGAAGPNTFA	61						
Db	9	MNGSGGSESYANNSSIVQCKVIFLTGKMBEASISSLY-RSMPLRLAVADLGCSSGPNTF	67						
QY	62	VISITIKRMEKKCKRELNCOTLELOVYINDLDEGNPNLLPKGLSS--EVLGKCEV----	115						
Db	68	VISEAIKSVKLCRELHNSPEYQIYMDLDEGNDNNLTKSLDSFKELCLCEITIEAGHGI	127						
QY	116	-PCYVMGVPGSFHGRLLPPRNSLIHLVHSSYSVHMLTQAPKGLTSREGIALNKGKIYISKTS	174						
Db	128	GSCFNGVPGSFYGRILPPTKSLHFVHSSYSILMLTISKVPDGVEN-----NKGNIYMASTS	181						
QY	175	PPVVRREALTSGFHEFTFMELNARSGEVVPNGCMVLLILGRQCSPPSDMQSFTFTELLAMA	234						
Db	182	SLNLTAKAYVEYQKDFSLFLCKRAEETVEGGRMVLTLFGRSDRRSSKECCYITELLAMA	241						

[illegible]

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RESULT 5
US-10-425-114-72594
; Sequence 72594, Application US/10425114
; Publication NO. US2004003468A1
; GENERAL INFORMATION:
; APPLICANT: Liu, Jingdong
; APPLICANT: Zhou, Yihua
; APPLICANT: Kovalic, David K.
; APPLICANT: Screen, Steven E
; APPLICANT: Tabaska, Jack E
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
; FILE REFERENCE: 38-21(5313)B
; CURRENT APPLICATION NUMBER: US/10/425,114
; NUMBER OF SEQ ID NOS: 2003-04-28
; SEQ ID NO 72594
; LENGTH: 384
; TYPE: PRT
; ORGANISM: Glycine max
; FEATURE:
; OTHER INFORMATION: Clone ID: LIB3030-012-H10_FLI.pep
US-10-425-114-72594

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Query Match	38.7%	Score 715.5	DB 15	Length 384
Neary Local Similarity	41.0%	Pred. No. 1,8e-62		
Matches 154	Conservative 72	Mismatches 113	Indels 37	Gaps 8
Qy	2	MNRGESSYAONSSFTQOVASMAQPALENAVETLFSHDFHLQALNADJGACAGPNTFA	61	
Db	20	MNCGSETSYANNLSLQCKVIFLTGKMBEBAISILY-RSMPLRSLAVADJGSSGPTTF	78	
Qy	62	VITIKRMMEKKCRELNCQTLEQYIYLLDIFGNDPNTLFFKLSS--EVIQKCEV----	115	
Db	79	VISEAKSYEKKCRELNHQSPESQIYMDLPPNPFNNIFKSLDSFPKKLCNCEIIEAGHI	138	
Qy	116	-PCYVAGVGSFHFGRFLFPNSSLHLVHSSSYVHMLTQAPKGLTSREGLALNKGIIYSIKTS	174	
Db	139	GSCFFPGVGSFYGRFLFPKSLHFPHSSYSLSMLSKPDVGEN-----KKGNTYMASTS	192	
Qy	175	PVYREAYVLSQFHEDFTFMLNARSOEVVPNGCVLILRGRCSPSPDMQSCFTWELLAMA	234	
Db	193	SLNVLAAVYEOYQKPSFLFKRAEIIYEGGRMVLTFGRSDRSRSECCYIWELLAMA	252	
Qy	235	IARLVSGQILDEDKLDTFNIPSYFASLEBVQIDVERDQSPFIIDIE-----G	281	
Db	253	LNDMWSKGIIEKQMDTFNIPQYLTSPSEVFEVQKESGSSFTLEBVTVPVMAAYDNGNA	312	
Qy	282	FDLD---SYEMQENDKMWGEKFTYVVAFTPEPILSNQFGEIMDKLYDKFTHIVSDLE	338	
Db	313	FDSECGLSLSLNG-----GYNVTKCMAYVAEPPLVSHFGBAIIEBFVSRYOQILTERMS	367	
Qy	339	AKLPKTTSLIIVLSKI	354	
Db	368	KE--KTEFVNAVITSMI	381	

RESULT 6
US-10-049-187-6

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; Sequence 6, Application US/10049187
; Publication No. US20030064695A1
; GENERAL INFORMATION:
; APPLICANT: CHOI, YANG-DO
; APPLICANT: CHEONG, JONG-JOO
; APPLICANT: LEE, JONG-SEOB
; APPLICANT: SONG, JONG-TAE
; APPLICANT: SONG, SANG-IK
; APPLICANT: SEO, HAK-SEO
; APPLICANT: KOO, YEON-JONG
; TITLE OF INVENTION: GENES FOR S-ADENOSYL L-METHIONINE: JASMONIC ACID
; TITLE OF INVENTION: CARBOXYL METHYLTRANSFERASE AND A METHOD FOR THE
; TITLE OF INVENTION: DEVELOPMENT OF PATHOGEN- AND STRESS-RESISTANT PLANTS
; FILE REFERENCE: 05833/0112
; CURRENT APPLICATION NUMBER: US/10/049,187
; PRIOR FILING DATE: 2002-06-13
; PRIOR APPLICATION NUMBER: PCT/KR01/00953
; NUMBER OF SEQ ID NOS: 8
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 6
; LENGTH: 359
; TYPE: PRT
; ORGANISM: Clarkia breweri
US-10-049-187-6

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Query Match      38.6%; Score 713; DB 14; Length 359;
Best Local Similarity 41.5%; Pred. No. 2.9e-62;
Matches 152; Conservative 68; Mismatches 110; Indels 36; Gaps 8;

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QY 2 MNRGEGSSYAONSFTQOVASMAOPALENAVETLFSRDFHLQALNADLGCAGPNT-F 60
DB 9 MKGAGENSYANNSFIQOVISTKPTTAITAYSGDVTTRIALADLGCSSGNALF 68
QY 61 AV---ISTIKRMMEKKREINCOITELQVYLNDLFGNDPNTLFGKLSSEVIKNCSEVPC 117
DB 69 AVTELKIVTELKRMKRE---NSPEYQIFLNDLFGNDPNTLFGKLSSEVIKNCSEVPC 121
QY 118 YVWGVSFGHRLFPNLSLHVSSYVHWLTOAPKGLTSREGALNKGKIYISKTSPPV 177
DB 122 FINGVPSFGHRLFPNLSLHVSSYVHWLTOAPKGLTSREGALNKGKIYISKTSPPV 175
QY 178 VREAVLSQFHEDFTWFLNARSQEVVPCVNLIRGRQCSPEDSQCFTEWILLAMALAE 237
DB 176 VLNAYYKQFOEDHALFLRCRAQEVVPGGRVLTILGRSEDRASTECCLIMOLMALALNQ 235
QY 238 LVSQGLIDEDKLDTPNIPSYFASLEEVKDIVERDGSFTTIDHIEGFDL-----D 265
DB 236 MVSQGLIEBKDKNFNIPQYTPSPTEVEAILKESGFLDHIIEASITWSSCTKDGDDGG 295
QY 286 SVEMQENDKVRKREKFTKVRATEPIISNOGPEIMDKLYKFTHIIVSDLEAKLPKTT 345
DB 296 SVEER-----GYNVACRMRAVAEPLLDHFGAIIEDVFHRYKLLIIRMSKEKTKFT 348
QY 346 SIILVL 351
DB 349 NVIVSL 354

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RESULT 7
US-10-469-993-10
; Sequence 10, Application US/10469993
; Publication No. US20040078847A1
; GENERAL INFORMATION:
; APPLICANT: Paldi, Nitzan
; TITLE OF INVENTION: METHOD OF ENHANCING ENTOMOPHILIOUS
; FILE REFERENCE: 26678
; CURRENT APPLICATION NUMBER: US/10/469,993
; CURRENT FILING DATE: 2003-09-16
; NUMBER OF SEQ ID NOS: 22
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 10

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; LENGTH: 359
; TYPE: PRT
; ORGANISM: Clarkia breweri
US-10-469-993-10

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Query Match      38.6%; Score 713; DB 15; Length 359;
Best Local Similarity 41.5%; Pred. No. 2.9e-62;
Matches 152; Conservative 68; Mismatches 110; Indels 36; Gaps 8;

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QY 2 MNRGEGSSYAONSFTQOVASMAOPALENAVETLFSRDFHLQALNADLGCAGPNT-F 60
DB 9 MKGAGENSYANNSFIQOVISTKPTTAITAYSGDVTTRIALADLGCSSGNALF 68
QY 61 AV---ISTIKRMMEKKREINCOITELQVYLNDLFGNDPNTLFGKLSSEVIKNCSEVPC 117
DB 69 AVTELKIVTELKRMKRE---NSPEYQIFLNDLFGNDPNTLFGKLSSEVIKNCSEVPC 121
QY 118 YVWGVSFGHRLFPNLSLHVSSYVHWLTOAPKGLTSREGALNKGKIYISKTSPPV 177
DB 122 FINGVPSFGHRLFPNLSLHVSSYVHWLTOAPKGLTSREGALNKGKIYISKTSPPV 175
QY 178 VREAVLSQFHEDFTWFLNARSQEVVPCVNLIRGRQCSPEDSQCFTEWILLAMALAE 237
DB 176 VLNAYYKQFOEDHALFLRCRAQEVVPGGRVLTILGRSEDRASTECCLIMOLMALALNQ 235
QY 238 LVSQGLIDEDKLDTPNIPSYFASLEEVKDIVERDGSFTTIDHIEGFDL-----D 265
DB 236 MVSQGLIEBKDKNFNIPQYTPSPTEVEAILKESGFLDHIIEASITWSSCTKDGDDGG 295
QY 286 SVEMQENDKVRKREKFTKVRATEPIISNOGPEIMDKLYKFTHIIVSDLEAKLPKTT 345
DB 296 SVEER-----GYNVACRMRAVAEPLLDHFGAIIEDVFHRYKLLIIRMSKEKTKFT 348
QY 346 SIILVL 351
DB 349 NVIVSL 354

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RESULT 8
US-10-424-599-198827
; Sequence 198827, Application US/10424599
; Publication No. US20040031072A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J
; APPLICANT: Kovalic, David K
; APPLICANT: Zhou, Yihua
; TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated with
; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
; FILE REFERENCE: 38-21(53223)B
; CURRENT APPLICATION NUMBER: US/10/424,599
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 285684
; SEQ ID NO 198827
; LENGTH: 354
; TYPE: PRT
; ORGANISM: glycine max
; FEATURE:
; OTHER INFORMATION: Clone ID: PAT_MRT3847_21565C.1.pep
US-10-424-599-198827

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Query Match      36.0%; Score 664; DB 15; Length 354;
Best Local Similarity 37.8%; Pred. No. 2.3e-57;
Matches 136; Conservative 80; Mismatches 128; Indels 16; Gaps 5;

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QY 2 MNRGEGSSYAONSFTQOVASMAOPALENAVETLFSRDFHLQALNADLGCAGPNT-F 61
DB 1 MNSGKGRSYANNSMOKRLMKGKIIIEBTI-TREYSYSSCKVADLGSVGNLTL 59
QY 62 VISTIKRMMEKKREINCOITELQVYLNDLFGNDPNTLFGKLSSEVIKNCSEVPC 115
DB 60 VINSIIDIVTCTTRINQSPPTFQFYLNDLFGNDPNTLFGKLSSEVIKNCSEVPC 118

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Qy 116 CCYVWGVGSGFGRLEPRNSLTHSSYSVMWLTQPKGLTREGALNKGYIKSTP 175
Db 119 -CFIATGSGFGRLEPRNSINLPHSANSLHMLSDPRLLEFTKEASFKNGCHIVSTP 177
Qy 176 PVREAYLISQFHEDETFMLPNARSOEYVPGNCVWLILGRQCSPSDMQSCFTWELLAMA 235
Db 178 PAVYQAYLKQFOQDPKFKFLKRSBELVPGAWVLLPLGK-----NKTHRTGTWEIISLV 232
Qy 236 AELVSGGLIDDKLDTFNIPSYFASLEEKDIVERGSGSTTIDHIEFDL--DSVENQEND 293
Db 233 NDMLLEGIEEBEKDLSFNIPVYEPYVEELRHVIOEGSGFFLOOLELLILPMWEGLINEVD 292
Qy 294 KWRGEKFTKVVRATFEPILISNOQGEIMDKYDKETHLVSDLEAKLPRTSIILVSK 353
Db 293 ANIKQKQPAKVARALMEBULSAKFGREVIIEVPIREKGLAQLMEVKEKLESTTFVLSMTK 352

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; TYPE: PRT
; ORGANISM: Coffea arabica
US-10-802-773-3

Query Match      35.7%; Score 658.5; DB 16; Length 385;
Best Local Similarity 38.2%; Pred. No. 7.3e-57;
Matches 150; Conservative 74; Mismatches 106; Indels 63; Gaps 11;

QY 2 MNRGEGSSYAQNSSFQQVASMAQPALENVETLFSRDFH--LQALNADLGCAGPNT 59
DB 9 MNGEGEASAYAKNSSFNQVLAKVKPVLEQCVGELLRAANLPINIKCIKIVADLGCAGPNT 68
QY 60 ---FAVISTIKRMMEKKCEKREINQCTLE--LOYVLNDLFGNDPNTLFGKLS----- 105
DB 69 LITVMDTVQSIDKVGEMKNELEBPT--IQVFLTDLFQNDFNSVFMLLPSFRKLEKENG 126
QY 106 EYGNKCEBPCVYMGVPSFHGRLFPNNSLHLVHSSYSVHMLTQAPKGLTSREGALANK 165
DB 127 RKIGS-----CLIAMPGSFHGRLPFPEESHMFLHSSYSLOFLSQVPSGLVTELGITANK 180
QY 166 GKIIYSKTSPPVYREAYLSQFHEDFTMFLNARSQEVVPGCMVL--ILRGQCDSPDMQ 223
DB 161 RSIYSKSKSPPVQKAYLDQFTKDTFTFLNRSSEILSRGMLLTCICKGDCGPN--- 237
QY 224 SCFTWELLAMAIAEIVSQGLIDEDKLTDPNIPSYFASLEEVQDIYERDGSFTIDHIEGPD 283
DB 238 ---TMDLLEMAINDLVAEGRLGEKLDSPNVPIYASVVEKVCWVEEGSFELVLYQFK 294
QY 284 L-----DSVENQ-----NDKRVGGEKTKVYRAFTPEIISNQGPEIMDKLYDKF 329
DB 295 LRYDAGFSIDDCQVRSHSPYSDHARAHAHVASLIRSVYEPIILASHGEMAIIPDIFHRF 354
QY 330 -----THIVSDLEAKLPKTTSI 347
DB 355 ATNAKVIRLKGKGFYNNLIIS--LAKKEKSDI 385

RESULT 12
US-09-971-020-5
; Sequence 5, Application US/09971020
; Patent No. US20020108143A1
; GENERAL INFORMATION:
; APPLICANT: Sano, Hiroshi
; APPLICANT: Kusano, Tomomobu
; APPLICANT: Koizumi, No. US20020108143A1om
; TITLE OF INVENTION: Theobromine Synthase Polypeptide of Coffee Plant and the Gene
; FILE REFERENCE: 026350-068
; CURRENT APPLICATION NUMBER: US/09/971.020
; CURRENT FILING DATE: 2001-12-18
; PRIOR APPLICATION NUMBER: JP 2000-307,149
; NUMBER OF SEQ ID NOS: 8
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 5
; LENGTH: 385
; TYPE: PRT
; ORGANISM: Coffea arabica
US-09-971-020-5

Query Match      35.2%; Score 649.5; DB 9; Length 385;
Best Local Similarity 38.5%; Pred. No. 7.3e-56;
Matches 151; Conservative 71; Mismatches 109; Indels 61; Gaps 11;

QY 2 MNRGEGSSYAQNSSFQQVASMAQPALENVETLFSRDFH--LQALNADLGCAGPNT 59
DB 9 MNGEGEASAYAKNSSFNQVLAKVKPVLEQCVGELLRAANLPINIKCIKIVADLGCAGPNT 68
QY 60 FAVISTIKRMMEKKCEKREINQCTLE--LOYVLNDLFGNDPNTLFGKLS-----E 106
DB 69 LITVMDTVQSIDKVRQEMK--NELERPTIQVFLTDLFQNDFNSVFMLLPSFRKLEKENG 127
QY 107 VIGNKCEBPCVYMGVPSFHGRLFPNNSLHLVHSSYSVHMLTQAPKGLTSREGALANK 166

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DB 128 KIGS-----CLIAMPGSFHGRLPFPEESHMFLHSSYSLOFLSQVPSGLVTELGITANKR 181
QY 167 KIYISKTSPPVYREAYLSQFHEDFTMFLNARSQEVVPGCMVL--ILRGQCDSPDMQ 224
DB 162 SIYSKSKSPPVQKAYLDQFTKDTFTFLNRSSEILSRGMLLTCICKGDCGPN----- 237
QY 225 CFTWELLAMAIAEIVSQGLIDEDKLTDPNIPSYFASLEEVQDIYERDGSFTIDHIE---- 280
DB 238 ---TMDLLEMAINDLVAEGRLGEKLDSPNVPIYASVVEKLCIYEEGSEFELYLETFKL 295
QY 281 ---GFDDL-----SVENQENDKRVGGEKTKVYRAFTPEIISNQGPEIMDKLYDKF- 329
DB 296 RYDAGFSIDDCQVRSHSPYSDHARAHAHVASLIRSVYEPIILANHGEALIPDIFHRFA 355
QY 330 -----THIVSDLEAKLPKTTSI 347
DB 356 TNAKVIRLKGKGFYNNLIIS--LAKKEKSDI 385

RESULT 13
US-10-802-773-5
; Sequence 5, Application US/10802773
; Publication No. US20040154055A1
; GENERAL INFORMATION:
; APPLICANT: Sano, Hiroshi
; APPLICANT: Kusano, Tomomobu
; APPLICANT: Koizumi, Nozomu
; TITLE OF INVENTION: Theobromine Synthase Polypeptide of Coffee Plant and the Gene
; FILE REFERENCE: 026350-091
; CURRENT APPLICATION NUMBER: US/10/802.773
; CURRENT FILING DATE: 2004-03-18
; PRIOR APPLICATION NUMBER: JP 2000-307,149
; NUMBER OF SEQ ID NOS: 22
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 5
; LENGTH: 385
; TYPE: PRT
; ORGANISM: Coffea arabica
US-10-802-773-5

Query Match      35.2%; Score 649.5; DB 16; Length 385;
Best Local Similarity 38.5%; Pred. No. 7.3e-56;
Matches 151; Conservative 71; Mismatches 109; Indels 61; Gaps 11;

QY 2 MNRGEGSSYAQNSSFQQVASMAQPALENVETLFSRDFH--LQALNADLGCAGPNT 59
DB 9 MNGEGEASAYAKNSSFNQVLAKVKPVLEQCVGELLRAANLPINIKCIKIVADLGCAGPNT 68
QY 60 FAVISTIKRMMEKKCEKREINQCTLE--LOYVLNDLFGNDPNTLFGKLS-----E 106
DB 69 LITVMDTVQSIDKVRQEMK--NELERPTIQVFLTDLFQNDFNSVFMLLPSFRKLEKENG 127
QY 107 VIGNKCEBPCVYMGVPSFHGRLFPNNSLHLVHSSYSVHMLTQAPKGLTSREGALANK 166
DB 128 KIGS-----CLIAMPGSFHGRLPFPEESHMFLHSSYSLOFLSQVPSGLVTELGITANKR 181
QY 167 KIYISKTSPPVYREAYLSQFHEDFTMFLNARSQEVVPGCMVL--ILRGQCDSPDMQ 224
DB 182 SIYSKSKSPPVQKAYLDQFTKDTFTFLNRSSEILSRGMLLTCICKGDCGPN----- 237
QY 225 CFTWELLAMAIAEIVSQGLIDEDKLTDPNIPSYFASLEEVQDIYERDGSFTIDHIE---- 280
DB 238 ---TMDLLEMAINDLVAEGRLGEKLDSPNVPIYASVVEKLCIYEEGSEFELYLETFKL 295
QY 281 ---GFDDL-----SVENQENDKRVGGEKTKVYRAFTPEIISNQGPEIMDKLYDKF- 329
DB 296 RYDAGFSIDDCQVRSHSPYSDHARAHAHVASLIRSVYEPIILANHGEALIPDIFHRFA 355
QY 330 -----THIVSDLEAKLPKTTSI 347

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Db 356 TNAKVIRLKGKGFYNNLIIS--LAKKPEKSDI 385

RESULT 14

US-10-739-930-9052

; Sequence 9052; Application US/10739930

; Publication No. US20040216190A1

; GENERAL INFORMATION:

; APPLICANT: Kovalic, David K.

; TITLE OF INVENTION: NUCLEIC ACID MOLECULES AND OTHER MOLECULES ASSOCIATED WITH

; TITLE OF INVENTION: PLANTS AND USES THEREOF FOR PLANT IMPROVEMENT

; FILE REFERENCE: 38-21(53377)B

; CURRENT APPLICATION NUMBER: US/10/739,930

; CURRENT FILING DATE: 2003-12-18

; NUMBER OF SEQ ID NOS: 11088

; SEQ ID NO 9052

; LENGTH: 367

; TYPE: PRT

; ORGANISM: Glycine max

; FEATURE:

; OTHER INFORMATION: Clone ID: GLYMA-23APR03-C34757_1.p

US-10-739-930-9052

Query Match 33.9%; Score 625.5; DB 17; Length 367;
Beet Local Similarity 37.0%; Pred. No. 1.7e-53;
Matches 132; Conservative 81; Mismatches 139; Indels 5; Gaps 3;

QY 2 MNRGGEBSYVANSFTQOVASMAQPALENVETLFSRDFHLOALNADLCCAGPNTFA 61

DB 12 MTGGVGTSTYANKSSLOKESDVKHIIQIVBELYLATTP-KSIGIDLCCSSGPNLTS 70

QY 62 VISTIKRMMEKKRELNCOTLELOYLNDLFQNDPNTLPKGL--SSSEVIGKCEVPY 118

DB 71 IIKDIFQAIQGISHRIMHSTEFRYFNDLPNTDNSTFKAIPEFQNLRODRKNGFPSI 130

QY 119 VM-GVPGSFHGRLEFPNRSILHVSYSVHMLTQAPKGLTSREGALNKGKIYISKTSPPV 177

DB 131 FMGGYPSFGRLFPNSYLFHVSYSVHMLSRVPALYDEHKRPLNKGCVYICSSPEV 190

QY 178 VREAYLSQFHEDFTWFLNARSQEVVPGNCVTLILRGQCDSPDMQSCFTWELLMATAE 237

DB 191 VSOAYYQFOEDFSLFLRSRSEELVVGGRVLIPLGRRGPEHVDHNGNSFFWEILSRFAI 250

QY 238 LVSQGLIDEDKLDTFNIPSYFASLEVKDIVERDGSFTIDHIEGFDLDSVEMQENDKVR 297

DB 251 LVSOGEIEQEKFDSDYDFHFAPSRSEIEBEVRKESLKERLEMEFMDKSNNEQSSBSY 310

QY 298 GEKPTKVVRAPTEPIISNQFGPEIMDKLYDKFTHIVSDLEAKLPKTSIILVLSKI 354

DB 311 GTQVAVAVRALQESWISHHFGEGILESLEFENYARLVDEMAKEDIRPISFVLVLRKI 367

RESULT 15

US-10-424-599-153131

; Sequence 153131; Application US/10424599

; Publication No. US20040031072A1

; GENERAL INFORMATION:

; APPLICANT: La Rosa Thomas J

; APPLICANT: Kovalic David K

; APPLICANT: Zhou Yihua

; APPLICANT: Cao Yongwei

; TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated With

; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement

; FILE REFERENCE: 38-21(53223)B

; CURRENT APPLICATION NUMBER: US/10/424,599

; CURRENT FILING DATE: 2003-04-28

; NUMBER OF SEQ ID NOS: 285684

; SEQ ID NO 153131

; LENGTH: 367

; TYPE: PRT

; ORGANISM: Glycine max

; FEATURE:

; OTHER INFORMATION: Clone ID: PAT_MRT3847_109300C.1.pep

US-10-424-599-153131

Query Match 33.8%; Score 624.5; DB 15; Length 367;
Beet Local Similarity 36.4%; Pred. No. 2.1e-53;
Matches 130; Conservative 83; Mismatches 139; Indels 5; Gaps 3;

QY 2 MNRGGEBSYVANSFTQOVASMAQPALENVETLFSRDFHLOALNADLCCAGPNTFA 61

DB 12 MTGGVGTSTYANKSSLOKESDVKHIIQIVBELYLATTP-KSIGIDLCCSSGPNLTS 70

QY 62 VISTIKRMMEKKRELNCOTLELOYLNDLFQNDPNTLPKGL--SSSEVIGKCEVPY 118

DB 71 IIKDIFQAIQGISHRIMHSTEFRYFNDLPNTDNSTFKAIPEFQNLRODRKNGFPSI 130

QY 119 VM-GVPGSFHGRLEFPNRSILHVSYSVHMLTQAPKGLTSREGALNKGKIYISKTSPPV 177

DB 131 FMGGYPSFGRLFPNSYLFHVSYSVHMLSRVPALYDEHKRPLNKGCVYICSSPEV 190

QY 178 VREAYLSQFHEDFTWFLNARSQEVVPGNCVTLILRGQCDSPDMQSCFTWELLMATAE 237

DB 191 VSOAYYQFOEDFSLFLRSRSEELVVGGRVLIPLGRRGPEHVDHNGNSFFWEILSRFAI 250

QY 238 LVSQGLIDEDKLDTFNIPSYFASLEVKDIVERDGSFTIDHIEGFDLDSVEMQENDKVR 297

DB 251 LVSOGEIEQEKFDSDYDFHFAPSRSEIEBEVRKESLKERLEMEFMDKSNNEQSSBSY 310

QY 298 GEKPTKVVRAPTEPIISNQFGPEIMDKLYDKFTHIVSDLEAKLPKTSIILVLSKI 354

DB 311 GTQVAVAVRALQESWISHHFGEGILESLEFENYARLVDEMAKEDIRPISFVLVLRKI 367

Search completed: December 22, 2004, 09:31:43
Job time : 145 secs


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QY 417 -GTATGTTGTAACAATGAGAGAGATTCCGTTATATGATGGAGATACCGGGGCTTT 475
Db 406 TGAAGAAAATGAGACGAGATAGATGCTGCTTAATAGCCCAATGCGCTGGCTCTT 465
QY 476 CCATGCGCGGCTTTTCTCTGTAACAGCTTACATTTAGTTCATTCTCTTACAGTGTCA 535
Db 466 CCACGCGAGACTCTTCCCGAGAGATGCAATGATTTTACACTCTTACAGTGTCA 525
QY 536 TTGGCTTCTAGAGACCAAAAGAGACTACAGACAGAGAGGCTTGGCATTAACAGAG 535
Db 526 ATTTTATCCAGGTTCCAGCGGTTGGTGTGATGAAATGGGAGATCACTGCAACAAAG 585
QY 596 GAAATTTTACATATCAAAAGACAGCCCTCTGTTGTAAGAGAGCCACTATCTCAAT 655
Db 586 GAGCATTTACTCTTCAAAAGCAAGTCTCCGCGCTCCAGAGGCAATTTTGATCAAT 645
QY 656 TCATGAAGATTTCAATGTTTCTCAATGCTAGATCCCAAGAGGTGTTCAATGTTG 715
Db 646 TACGAAAGATTTTACCAATTTTMAAGATTCGTTCCGAAAGATGCTTCAAGCGCG 705
QY 716 TATGTTGTTGATCTTCTGTTAGGCAATGTTGATCCTTCAAGATGAGAGCTGTT 775
Db 706 AATGCTCTTACTTGATGCTTGGCAAGAGAT-----GAATTCAGCGCCCGAA 753
QY 776 TACTTGGGAATTTAGCTATGCGCATTTGCTGAATTTGTTCAAGAGATTGATATGA 835
Db 754 TACCATGAGCTTACTTGATAGATGCAATTAACGACTTGTGAGAGACATCTGAGAG 813
QY 836 AGATTAATTTAGACCTTTCAATATACCCAGCTATTTTGCATCTTGAAGAAAGTGAAGA 895
Db 814 AGAAAATTTGACAGTTTCAATTTCAATCTATGACGCTTCCAGTGAAGAAATTAAGTG 873
QY 896 TATATGAGAGAGGAGCGATCATTCACAAATGATCATATAGAGGGGTTGATCT 949
Db 874 CATATGTTAGAGAGAGTTCTTTGAAATTTTGATCTTGGAGACTTTAACT 927
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RESULT 2

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US-09-971-020A-8
; Sequence 8, Application US/0971020A
; Patent No. 6734342
; GENERAL INFORMATION:
; APPLICANT: Sano, Hiroshi
; APPLICANT: Kusano, Tomonobu
; APPLICANT: Koizumi, No. 6734342omu
; TITLE OF INVENTION: Theobromine Synthase Polypeptide of Coffee Plant and the
; FILE REFERENCE: Gene Encoding Said Polypeptide
; CURRENT APPLICATION NUMBER: US/09/971,020A
; CURRENT FILING DATE: 2001-10-05
; PRIOR APPLICATION NUMBER: JP 2000-307,149
; NUMBER OF SEQ ID NOS: 22
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 8
; LENGTH: 1316
; TYPE: DNA
; ORGANISM: Coffea arabica
US-09-971-020A-8
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Query Match 10.6%; Score 151.2; DB 4; Length 1316;
Beet Local Similarity 51.1%; Pred. No. 4,4e-30;
Matches 534; Conservative 0; Mismatches 473; Indels 39; Gaps 6;
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QY 80 GAAGTGAACGAAGTGTTCATGAACAGGGGGAGAGAAAGTATGTTATGCACAAA 139
Db 47 GAGGTCCAAAGATCTCGCGATGAATGAGGGGAGGAGATACAAAGCTAACCCAAAGAA 106
QY 140 CTCTTCTTTCACGACAGAGTGGCTCAATGACACAGCGGTGAAATGCAAGTT-- 197
Db 107 TTCAGCTCAATCAACTGGTTCGCGCAAGGTAAACCTGCTTGAACAAATGCGTACG 166
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QY 198 GAAACTCTCTTCCAGAGATTTTCCACTTCA-----GCTTTAACGACGAGACTGGG 253
Db 167 GGAATTTGTCGGGGCCAACTTCCCAACATCAACAAATGATTAAGTTGGGATTTGGG 226
QY 254 TTGTGACGGGCTTCCAAACACATTTGCAATGATTTCTACATCAAGAGATGATGAAA 313
Db 227 ATGCGCTTGTGACCAACACACTTTTAAGTTGCGGACATTTGCCAAATATTGACA 286
QY 314 GAAATGACGGGAATGGAATTCGCAACACTGGAAC-----TTAAGTTTACTTGAATGA 367
Db 287 AGTTGGCCAGAAAAGAAATGAATTAAGAACTGCCAACCAATTAAGATTTTCTGAATGA 346
QY 368 TCTTTTGGAAATGATTTCAATACCTCTTCAAAAGGCTGTCGTGA----- 415
Db 347 TCTTTTCCCAATGATTTCAATTCGGTTTCAATTTGCTGCAAGCTTCAACGCCAACT 406
QY 416 GGTATTTGTAACAATGTGAGAGATTCGCTGTTATGTATGATGAGATACCGGGCTTT 475
Db 407 TGAAGAAAATGAGACGCAAAATAGGATCGTCTTAATAGGGGCAATGCCGCTCTT 466
QY 476 CCATGCGCGGCTTTTCTCTGTAACAGCTTACATTTAGTTCATTCCTCTTACAGTGTCA 535
Db 467 CTACGAGAGACTTTCCTCCAGAGATGATGATTTTTCACCTCTTGTATCTGTCTTCA 526
QY 536 TTGGCTTACTGAGCACCAAAAGACTCACAGCAGAGAGGCTTGGCATTAACAGAG 595
Db 527 ATGTTTATCTCAGGTTCTTCCGCTTGTGTGATGATTTGGGATCATGACGAACAAAG 586
QY 596 GAAATTTTACATATCAAAAGACAGCCCTCTGTTGTAAGAGAGCCCTACTATCTCAAT 655
Db 587 GAGCATTTTACTCTTCCAAACAGATGCTGCTCCGCTCCAGAGGCAATTTGGATCAAT 646
QY 656 TCATGAAGATTTCACAATGTTTCTCAATGCTAGATCCAAAGGTGTTCCAAATGTTG 715
Db 647 TACGAAAGATTTTACCAATTTCTAAGATTAATTCGAAAGGTGTTTCAATGCGCG 706
QY 716 TATGTTGTTGATCTTCTGTTAGGCAATGTTTCTGATCTTCAAGATGACAGAGCTGCTT 775
Db 707 AATGCTCTTACTTGATGCTTGTGAAGAGAT-----GAATTAAGCGCCCGAA 754
QY 776 TACTTGGGAATTTAGCTATGCGCATTTGCTGAATTTGTTCAAGAGATTGATATGA 835
Db 755 TGCCATATGACTTACTTGATGATGCAATTAACGACTTGTGTTGAGGACATCTGAGAG 814
QY 836 AGATTAATTTAGACACTTCAATATACCCAGCTATTTTGCATCTTGAAGAAAGTGAAGA 895
Db 815 AGAAAATTTGATGATTTCAATCTTCACTATATACCTTACAGCAAGAAATTAAGTG 874
QY 896 TATATGAGAGAGGAGCGATCATTCACAAATGATCATATAGAGGGGTT---GATCTTGA 952
Db 875 CATATGTTGAGAGGAGGTTCTTTGAAATTTTATCCTGAGACTTTTAAGGTCTTTA 934
QY 953 TAGCGTGAATGACGAGAGATGATTAATGGTTAGAGGGGAAAGTTTACCAAGTTGT 1012
Db 935 CGATGCTGCTTCTCTATTTAGAGATGAACATATTAAGCAGATATGTTGATCTTCGT 994
QY 1013 CAGGCTTTCACAGAGCTTATATTTCAACCAAGTTTGGACCTGAATTCAGCAAACT 1072
Db 995 TAGAGCAATTTACGAAACCATCTCTCGCAAGTCAATTTTGGAGAGCTATATATCCTGACAT 1054
QY 1073 AATATCAAAATTCATCACTGATTTG 1098
Db 1055 ATTCACAGGTTTGGAGACATGACG 1080
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RESULT 3

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US-09-971-020A-4
; Sequence 4, Application US/0971020A
; Patent No. 6734342
; GENERAL INFORMATION:
; APPLICANT: Sano, Hiroshi
; APPLICANT: Kusano, Tomonobu
; APPLICANT: Koizumi, No. 6734342omu
```

```
; TITLE OF INVENTION: Theobromine Synthase Polypeptide of Coffee Plant and the
; FILE OF INVENTION: Gene Encoding Said Polypeptide
; FILE REFERENCE: 026350-068
; CURRENT APPLICATION NUMBER: US/09/971,020A
; CURRENT FILING DATE: 2001-10-05
; PRIOR APPLICATION NUMBER: JP 2000-307,149
; NUMBER OF SEQ ID NOS: 22
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 4
; LENGTH: 1360
; TYPE: DNA
; ORGANISM: Coffea arabica
US-09-971-020A-4

Query Match      10.5%; Score 149.2; DB 4; Length 1360;
Best Local Similarity 53.1%; Pred. No. 1.5e-29;
Matches 475; Conservative 0; Mismatches 383; Indels 36; Gaps 6;

QY 80 GAAGGTGAACGAAGTGTTCATGTAACAGGGGGGAGAGAAAGATTATGACAAAA 139
DB 16 GGAGCTCCAGAAAGTCTGCAATATGATGAGGCGAAGCGAAGCTTACGCCAAGA 75
QY 140 CTCTTCTTACGCAACAAGTGGCTCAATGACAGCCAGCGCTAGAAATGCAATT-- 197
DB 76 TTCACTCTTCATCACTGCTTCTGCGCAAGGTAAGAACTGTCTTGAACAAATGGCTAG 135
QY 198 GAAGCTCTTCTCCAGAGATTTCCACCTTCA---GCTTTAACGCGGCACTTGGG 253
DB 136 GGAATTTGTTGCGGGCACTTCCCAACATCAAGTCAATTAAGTTGCAAGATTGGG 195
QY 254 TTGTCAGGAGGTCGCAACACA-TTCGCGATGATTTCTAGATCAAGATGATGAA 312
DB 196 ATGCGCTTCGGAACCAACACCTTTTAACTGTTGGACACTGTAACAAAGATTGACA 255
QY 313 AGAAATGACGGAATTGA-----ATTGCCAAACACTGAACTTCAAGTTTACTTGAATGA 367
DB 256 AGTTAAGCAAGAAATGAAGATGAATTAAGAGTCCACCATTTCAAGTTTTCTGACTGA 315
QY 368 TCTTTTGGAAATGATTTCAATACCTCTTCAAGGCGCTGTCTGAG----- 416
DB 316 TCTTTTCCAAATGATTTCAATTCGTTTTCATGCTGCTGCCAAGCTTCTACCGAACT 375
QY 417 -GTTATGTTGAACAATGAGAGAGTTCGTTATGATGAGGAGTACCGGGGCTTT 475
DB 376 TGAGAAAGAAATGACGCAAAATAGATGTCCTTAAGCCGCAATGCTCGGCTCTT 435
QY 476 CCATGCGCGGCTTTTCTCTGTAACAGCTTACATTTAGTTCAATTCCTTTACAGTGTCA 535
DB 436 CCAAGCGAGACTCTTCCCGAGAGATCCATGCAATTTTACACTCTTCTTACAGCTTCA 495
QY 536 TTGCTTACTACGCAACCAAAAGACTCAACAGCAGAGAGAGCTTGGCATTAACAAGG 595
DB 496 GTTTTATCCCGGTCCAGCGGTTTGTGACTGATTTGGGAGTACATCCCAAAAG 555
QY 596 GAAATTTACATATCAAGAGCAAGCCCTCTTGTGAAGAGAGCTATTATCTCAAT 655
DB 556 GAGCATTTACTCTTCAAGCAAGTCTCCGCCGCCAGAGGCAATTTGATCAAT 615
QY 656 TCATGAAGATTTCAATGTTTCTCAATGCTAGATCCCAAGAGTGTTCACAAATGTTG 715
DB 616 TACGAAGATTTTACACATTTTAAAGATGCGTTTGAAGAGTGTTCACAGTGGCGG 675
QY 716 TATGCTGTGATTAATCTTGTGAGCAATGTTCTGATCTTCAAGCAGCAGAGCTGCT 775
DB 676 AATGCTCTTCACTTCAATTTGAAGAGAT-----GAATCGAAGCGGCCGGA 723
QY 776 TACTTGGGAATTAATAGTATGAGCAATGCTGATTTGTTTCAAGGAGTTGATAGTA 835
DB 724 TACCAATGACTTAATGATGAGCAATTAACGATGTTGTTGAGGAGCTGTGGGGA 783
QY 836 AGATAAATTGACACCTTCAATATACCCAGTATTTTGCATCACTTGAAGAGTAAGA 895
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DB 784 AGAAAAATTTGACAGCTTTCATGTTCAATCTATACAGCTTCAGTAGAAGAAAGTG 843
QY 896 TATAGTGAAGAGGAGCGATCAATTCATTAATGATGATATGAGGGTTGATCT 949
DB 844 CATGTTGAGAGGAGGATCTTTTGAATTTATTAATTTGACAGACTTTAACT 897

RESULT 4
US-09-971-020A-2
; Sequence 2, Application US/09971020A
; Patent No. 6734342
; GENERAL INFORMATION:
; APPLICANT: Sano, Hiroshi
; APPLICANT: Kusanu, Tomonobu
; APPLICANT: Koizumi, No. 6734342om
; TITLE OF INVENTION: Theobromine Synthase Polypeptide of Coffee Plant and the
; FILE OF INVENTION: Gene Encoding Said Polypeptide
; FILE REFERENCE: 026350-068
; CURRENT APPLICATION NUMBER: US/09/971,020A
; CURRENT FILING DATE: 2001-10-05
; PRIOR APPLICATION NUMBER: JP 2000-307,149
; NUMBER OF SEQ ID NOS: 22
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 2
; LENGTH: 1298
; TYPE: DNA
; ORGANISM: Coffea arabica
US-09-971-020A-2

Query Match      9.7%; Score 138.8; DB 4; Length 1298;
Best Local Similarity 51.8%; Pred. No. 8e-27;
Matches 461; Conservative 0; Mismatches 392; Indels 37; Gaps 5;

QY 80 GAAGGTGAACGAAGTGTTCATGTAACAGGGGGGAGAGAAAGATTATGACAAAA 139
DB 34 GGAGCTCCAGAAAGTCTGCAATATGATGAGGCGAAGCTTACAGCTACGCCAAGA 93
QY 140 CTCTTCTTACGCAACAAGTGGCTCAATGACAGCCAGCGCTAGAAATGCAATTGA 199
DB 94 TGCATCTTCATCAATCTGCTCTTGC--CAAGGTGAACCTTTCTTGAACAAATGATGCA 151
QY 200 AACTCTTCTTCCAGAGATTTCC-----ACCTTCAAGCTTTCACAGCGGACTTGGT 254
DB 152 GAATTTGTCGGGCGCACTTGCCTCAACATCAACAAAGTCAATTAAGTTGGGATTTGGGA 211
QY 255 TGTGACGCGGTCGCAACACATTCGACAGTATTTCTACATCAAGAGATGAGAAAG 314
DB 212 TCGGCTTCTGACCAACACACTTTTAAAGTGGGACATTTGTGCAAAAGATTGACAAA 271
QY 315 AAATGACGGAATTGA-----ATTGCCAAACACTGAACTTCAAGTTTACTTGAATGAT 368
DB 272 GTTGGCAGAGAAAGAAAGATGAAATTAAGAGTCCACCATTTCAATTTTCTGAAATAT 331
QY 369 CTTTGTGAAGATTTCAATACCTCTTCAAAAGGCTGTGCTGAG----- 416
DB 332 CTTTTCCAAAATGATTTCAATTCGTTTCAAGTGTCTCCCAAGTTTCTACCGCAACTC 391
QY 417 GTTATGTTGAACAATGAGAGAGTTCGTTATGATGAGGAGTACCGGGGCTTTTC 476
DB 392 GAGAAAGAAATGACGCAAGATGATGATGCTTAATTAAGGCAATCTCGGCTCTTTC 451
QY 477 CATGCGCGGCTTTTCTCTGTAACAGCTTACATTTAGTTCAATTCCTCTTACAGTGTCA 536
DB 452 TACGCAAGACTCTTCCCGAGAGTCAATGATTTTGTGACTCTTGTGAAGTGTAT 511
QY 537 TGGCTTACTACGAGCCAAAGAGACTCAAGCAGAGAGAGCTTGGCAATTAACAAGGG 596
DB 512 TGTATTATCTCAGGTTCCAGCGGTTTGTGATGATTTGGGATTTGTGCAACAAAGG 571
QY 597 AAGATTACATATCAAGAGAGCCCTCTGTTTGAAGAGAGCTTACTTATCTCAATT 656
DB 572 AGTATTACTCTTCCAAAGATGTCGTCGCGCCGCCGAGAGGCAATATTTGATCAATTT 631
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QY      657 CATAAGATTTCACAAATGTTCTCAATGCTAGATCCCAAGAGTGGTTCCAAATGTTGT 716
Db      632 ACAGAAATTTTACACATTTCTTAGAGATTCAATTCGAAAGAGTTTTCACGTGGCCGA 691
QY      717 ATGCTGTATACCTTGTGGTAGAGCAATGTTCTGATCCTTCAGACATGCAAGCTGCTT 776
Db      692 ATGCTCTTACCTGCATTTGTAAAGTAAAT-----GAATTGACGAACCGAAT 739
QY      777 ACTTGGACATTTACTATGCGCATCTGTGATTTGTTTACAGAGATGATAGTAA 836
Db      740 CCGCTAGCTTACTTACATGCGAATAAAGCATTTGTTGAGGACCTTCGAGGAA 799
QY      837 GATTAATTAGACACCTTCATATACCACGATATTTTGATCATCTTGAAGAGTAAAGAT 896
Db      800 GAAATAATTGATAGTTTCAATATTCATCTTTTACACCTTCAGCAGAAAGATAAAGTGC 859
QY      897 ATAGTGAGAGGAGGAGATTCATTCATATGATCATATATAGAGGGGTTTGA 946
Db      860 ATAGTTGAGAGGAGGAGTTCTTGCGAAATTTATATCTGAGACTTTTAA 909

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RESULT 5 US-09-653-375B-1

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; Sequence 1, Application US/09653375B
; Patent No. 6558922
; GENERAL INFORMATION:
; APPLICANT: Doudereva, Natalia
; APPLICANT: Multifit, Lisa M.
; TITLE OF INVENTION: Methods and Compositions for Production of Floral Scent
; FILE REFERENCE: 76-02
; CURRENT APPLICATION NUMBER: US/09/653,375B
; PRIOR APPLICATION NUMBER: US 60/152,393
; PRIOR FILING DATE: 1999-09-03
; NUMBER OF SEQ ID NOS: 10
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 1
; LENGTH: 1363
; TYPE: DNA
; ORGANISM: Antirrhinum majus
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (19)..(1110)
US-09-653-375B-1

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Query Match

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Best Local Similarity 9.4%; Score 134.4; DB 4; Length 1363;
Matches 460; Conservative 0; Mismatches 406; Indels 42; Gaps 4;

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QY      78 GGGAGGTGACGAAGTGTTCATGAAAGGGGGGAAAGAAAGTATGATGACAA 137
Db      25 GTGATGAAGAACTTTGTATGAAATGTGACAGAGATGTGAAACTAGTACGCCAC 84
QY      138 AACTCTTCTTACGCAACAGTGGCTCAATGCGACAGCGGCTAGAAAATGACAGT 197
Db      85 AATTCTGGCTTCAAAAAGTATGATGTCAAATCATTTGATGTTTAAAGCAACCTT 144
QY      198 GAACTCTCTTCTCAGAGATTT---CCACCTTAAGCTCTTAAACGACGGAAGCTGGT 254
Db      145 AAAAGATATATCGGATCATGTTGGCTTCCAAAATGCTTCAAGATGATGATAGGGT 204
QY      255 TGTGACGGGGTCCAAACACATTCGAGTATTTCTACGATCAAGAAATGATGAGAAAG 314
Db      205 TGTTCATAGAGGCTTAAGCCCTTTTGTATGTCGCGCATTTAAATACAAATTGAGAT 264
QY      315 AAATGACAGGAATTGAA---TTGCCAAACCTGGAATCTAGGTTACTTGAATGATCTT 371
Db      265 TTGATACAGAGAAATATTAATGAATTAAGTAAATTTGAGGTTTCTGAAACGATCTT 324
QY      372 TTGGAATGATTTCAATACCTCTTCAAGGCTGTGCTGAGGTATTTGTAACAA 431

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Db      325 CCAGACACGACTTCAACAACTCTTCAAAATGTTATC-----A 363
QY      432 TGTGAGAAAGTCCGTATATGATGAGAGTACCGGGGTCTTTTCCATGCGCGCTTTT 491
Db      364 CATGAGAAATGAAACTGCTTTGTATATGTTTGTCTGATTTTCTACGGAGACTATG 423
QY      492 CCGTAAACGCTTCAATTTAGTTTATCTCTTCAAGTGTTCATGAGTACTACAGCA 551
Db      424 CCAAAAAGAGCTACACTTTGCTTATTTCTTCAAGTATTCAGTGGCTCTGAGGT 483
QY      552 CCAAAAAGACTCACAGAGAGAAAGCTTGGCATTTAAACAAGGAGATTTACATCA 611
Db      484 CCGAAGGGCT-----GAGAGTAAATACAGACAAACATTTACATGCA 528
QY      612 AAGACACCCCTCTGTTTGAAGAAAGCCTTATCTCAATTTCAATGAAATTTCA 671
Db      529 ACAGAAAGTCTCCGGAAGGTACAAAGCATACGCAAGCATACGAAAGACTTCTCC 588
QY      672 ATGTTCTCATGCTAGATCCCAAGAGTGTCCAAATGTTGTATGTTGATGATCTT 731
Db      589 ACATTTCTAAAGTGGAGGCGAGGAGAAATGTACAGTGGACGATGATTTGACATTT 648
QY      732 CGTGTAGGCAATGTTCTGATCCTTTCAGACATGACAGGCTTCTTACCTTGGAACTATTA 791
Db      649 AACGCAAGAGTGTGAAGATCCCTGAGCAAGATGATGACATTTTCAATTTGCTT 708
QY      792 GCTATGCGCATGCTGATGATGTTTTCACAGGATGATGATGAAATTAATTAACACC 851
Db      709 GCAAAAACACTAGTTGATATGTTGCTGAGGGCTTGTCAAGTGAACATTTGTACTCG 768
QY      852 TTCAATATCCAGCTATTTTGCATCATCTTGAAGAAAGTAAAGATATATGAGAGAGAC 911
Db      769 TTAACTTCTTATTTTACTTACCATGATGACCGCGAAGTGAAGGACGACATTTGATGTA 828
QY      912 GGATCATTCACATGATCATATAGAGGGGTTGATCTTGAATGAGTGAATGACAGAG 971
Db      829 GGGCTTTTACGTGACAGGCTAAGAGCTTTCGTGTTGTTGGATGACAAATGATCATAC 888
QY      972 AATGATTA 979
Db      889 ACAGATGA 896

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RESULT 6

US-09-027-137-2

; Sequence 2, Application US/09027137

; Patent No. 6013450

; GENERAL INFORMATION:

; APPLICANT: Hillman, Jennifer L.

; APPLICANT: Corley, Neil C.

; TITLE OF INVENTION: CAP1-RELATED PROTEIN

; NUMBER OF SEQUENCES: 3

; CORRESPONDENCE ADDRESS:

; ADDRESSEE: Incyte Pharmaceuticals, Inc.

; STREET: 3174 Porter Dr.

; CITY: Palo Alto

; STATE: CA

; COUNTRY: USA

; ZIP: 94304

; COMPUTER READABLE FORM:

; MEDIUM TYPE: Diskette

; OPERATING SYSTEM: IBM Compatible

; SOFTWARE: FastSeq for Windows Version 2.0

; CURRENT APPLICATION DATA:

; APPLICATION NUMBER: US/09/027,137

; FILING DATE: Filed Herewith

; CLASSIFICATION:

; PRIOR APPLICATION DATA:

; APPLICATION NUMBER:

; FILING DATE:

ATTORNEY/AGENT INFORMATION:
 NAME: Billings, Lucy J.
 REGISTRATION NUMBER: 36,749
 REFERENCE/DOCKET NUMBER: PT-0476 US
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: 650-845-0555
 TELEFAX: 650-845-4166
 INFORMATION FOR SEQ ID NO: 2:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 2852 base pairs
 TYPE: nucleic acid
 STRANDEDNESS: single
 TOPOLOGY: linear
 IMMEDIATE SOURCE:
 LIBRARY: PROSNOL16
 CLONE: 2229466

Query Match	3.7%	Score 52.6	DB 3	Length 2852
Best Local Similarity	50.2%	Pred. No. 0.0052		
Matches 130	Conservative	0	Mismatches 129	Indels 0
			Gaps	0
Qy	1150	TTTCCAGATTGATGATAGTTTTTTTAACTGTTGTAATAAATCTGTTCCCTATCACAAT	1205	
Db	2289	TTTCAAAAACCAAAACCCACTTTGGATTGTGGAAATGTAATAAATCTGTAACACACCAAGT	2348	
Qy	1210	ATATGCCACTAGAGGGGTGTGCGCAATGTATTGCAACAAGAATTTGAGGGGGTCAAAAT	1265	
Db	2349	GAATGAAATGCTTGCATTTTAAAGCTTATGGAAACTCAATTTGAAATGATTGAAAA	2405	
Qy	1270	TAGAAACATTTTGCTCTTGTGTGGAGAGAGATGTTTTCTTGATTTAAATCTGTGATAC	1325	
Db	2409	TGTCAAGATTATTAAGCTGCTGATTTTAAAGTCTCTTAATCTATTTATGTTTTTAAATTT	2468	
Qy	1330	CCAAATCTGAATGTGGGAGAGAAATGAGAAATGTAACATGAATTTTAAAAA	1385	
Db	2469	TGTAAATATTAAGATTTCTTTTTAACACCTGGCAAAAAAAAAAAAAAAAAAAAA	2522	
Qy	1390	AAAAAAAAAAAAAAAAAAAA	1408	
Db	2529	AAAAAAAAAAAAAAAAAAAA	2547	

RESULT 7
 US-09-344-441-2
 Sequence 2, Application US/09344441
 Patent No. 6376651
 GENERAL INFORMATION:
 APPLICANT: Hillman, Jennifer L.
 Corley, Neil C.
 Yee, Henry
 TITLE OF INVENTION: CARL-RELATED PROTEIN
 NUMBER OF SEQUENCES: 3
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: Incyte Pharmaceuticals, Inc.
 STREET: 3174 Porter Dr.
 CITY: Palo Alto
 STATE: CA
 COUNTRY: USA
 ZIP: 94304
 COMPUTER READABLE FORM:
 MEDIUM TYPE: Diskette
 COMPUTER: IBM Compatible
 OPERATING SYSTEM: DOS
 SOFTWARE: Fastseq For Windows Version 2.0
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/09/344,441
 FILING DATE: 20-Feb-1998
 CLASSIFICATION: <Unknown>
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: 09/027,137
 FILING DATE: 1998-02-20
 ATTORNEY/AGENT INFORMATION:

NAME: Billings, Lucy J.
REGISTRATION NUMBER: 36,749
REFERENCE/DOCKET NUMBER: PF-0476 US
TELECOMMUNICATION INFORMATION:
TELEPHONE: 650-855-0555
TELEFAX: 650-845-4166
INFORMATION FOR SEQ ID NO: 2:
SEQUENCE CHARACTERISTICS:
LENGTH: 2852 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
IMMEDIATE SOURCE:
LIBRARY: PROSNOT16
CLONE: 2229466
SEQUENCE DESCRIPTION: SEQ ID NO: 2:
US-09-344-441-2

	Query Match	3.7%	Score 52.6	DB 3:	Length 2852	
	Best Local Similarity	50.2%	Pred.	No. 0.00052		
	Matches 130	Conservative 0	Mismatches 129	Indels 0	Gaps 0	
Oy	1150 TTTCGAAGATTGATGATAGTGTTTTAACTGGTGTAATAAATCCTGTGCCCTATACAT					1209
Db	2289 TTTTAAAAAACCAAAACCACCTTGTGATGTGGAGAATAAAACCTGTAACTCACCTCAAGT					2348
Oy	1210 ATATGCCACTGAGAGGGTGTGSCCAATGATATGCACAAGAAGATTGAGAGGGTCAATA					1269
Db	2349 GAATGAATGCTTGCTTGATTTTAAABAAGCTTAATGGAAATCTCAATTTGAAATGATTAGAAAA					2408
Oy	1270 TAGAAGCATTTTGCTCTTGTTGTGAGAGAGAAATGTTTTCTTGATTTAAATCTGTATAC					1329
Db	2409 TGTCAGATTTATTAAGCTGTGATTTAAAGATGCTTGTAATATCTTTATATGTTTTAAATTT					2468
Oy	1330 CCAATCGTATATGTTGGAGAAAGAAATGAGAAATTGAACATGAAATTTTAAAAAAAAAAAA					1389
Db	2469 TGTAAATATTAAGATTTCTTTTAAACAATGCAAAAAAATTTTTTTTTTTTTTTTTTTT					2528
Oy	1390 AAAAAAAAAAAAAAAAAAAAAA 1408					
Db	2529 AAAAAAAAAAAAAAAAAAAAAA 2547					

RESULT 8
 US-08-630-118A-1
 ; Sequence 1, Application US/08630118A
 ; Patent No. 5919901
 ; GENERAL INFORMATION:
 APPLICANT: Hu Ph.D., Yinghe
 APPLICANT: McCalieb Ph.D., Michael L.
 APPLICANT: Bloomquist Ph.D., Brian T.
 APPLICANT: Flores-Riveros Ph.D., Jaime R.
 APPLICANT: Cornfield Ph.D., Linda J.
 TITLE OF INVENTION: Neuropeptide Y Receptor and Nucleic Acid
 TITLE OF INVENTION: Sequences
 NUMBER OF SEQUENCES: 8
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: McDonnell Boehnen Hulbert & Berghoff
 STREET: 300 South Wacker Drive, 32nd Floor
 CITY: Chicago
 STATE: IL
 COUNTRY: USA
 ZIP: 60606
 COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: PatentIn Release #1.0, Version #1.30
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/630,118A
 FILING DATE: April 8, 1996
 CLASSIFICATION: 435
 ATTORNEY/AGENT INFORMATION:

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OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent In Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/235,839
FILING DATE:
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/630,118
FILING DATE: April 8, 1996
ATTORNEY/AGENT INFORMATION:
NAME: Greenfield Ph.D., Michael S.
REGISTRATION NUMBER: 37,142
REFERENCE/DOCKET NUMBER: 96,149-C
TELECOMMUNICATION INFORMATION:
TELEPHONE: (312)913-0001
TELEFAX: (312)913-0002
INFORMATION FOR SEQ ID NO: 1:
SEQUENCE CHARACTERISTICS:
LENGTH: 2481 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA
HYPOTHEetical: NO
ANTI-SENSE: NO
FEATURE:
NAME/KEY: CDS
LOCATION: 248..1582
US-09-235-839-1

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APPLICANT: Cornfield Ph.D., Linda J.
TITLE OF INVENTION: Neuropeptide Y Receptor and Nucleic Acid
NUMBER OF SEQUENCES: 8
CORRESPONDENCE ADDRESS:
ADDRESSEE: McDonnell Boehnen Hulbert & Berghoff
STREET: 300 South Wacker Drive, 32nd Floor
CITY: Chicago
STATE: IL
COUNTRY: USA
ZIP: 60606
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/630,118A
FILING DATE: April 8, 1996
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: Greenfield Ph.D., Michael S.
REGISTRATION NUMBER: 37,142
REFERENCE/DOCKET NUMBER: 96,149/MH 405
TELECOMMUNICATION INFORMATION:
TELEPHONE: (312)715-1234
TELEFAX: (312)715-1000
INFORMATION FOR SEQ ID NO: 3:
SEQUENCE CHARACTERISTICS:
LENGTH: 2604 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA
HYPOTHETICAL: NO
ANTI-SENSE: NO
FEATURE:
NAME/KEY: CDS
LOCATION: 371..1705
US-08-630-118A-3

Query Match
Best Local Similarity 49.6%; Score 52.4; DB 2; Length 2604;
Matches 134; Conservative 0; Mismatches 136; Indels 0; Gaps 0;

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QY 1199 CCTATCACATATATGCCCTGAGGGTTGGCCAAATGATGACACAGAAGATTGAGA 1258
Db 2394 ACTTCTAAGTCACTTTTAAAGTCTGAGATGATGATGATGCTAGTGTGTTTAATA 2453
QY 1259 GGGGTCAATATAGAAAGCAATTTGCTCTGTGTGAGAGAGATGTTCTTGAATTA 1318
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QY 1319 ATCTGATATCCCAATGCTAATGTTGGAGAAATGAGAAATGAGCATGAATTTTA 1378
Db 2514 TGTGTCTCACTAAAGTAAAGCAACGAAAAAAGAAAAAAGAAAAAAGAAAAA 2573
QY 1379 AAAAAAAAAAAAAAAAAAAAAAAAAAAAAA 1408
Db 2574 AAAAAAAAAAAAAAAAAAAAAAAAAAAAAA 2603

RESULT 13
US-08-838-399-3
Sequence 3, Application US/08838399
Patent No. 5965392
GENERAL INFORMATION:
APPLICANT: Hu Ph.D., Yinghe
APPLICANT: McCalieb Ph.D., Michael L.

APPLICANT: Bloomquist Ph.D., Brian T.
APPLICANT: Flores-Riveros Ph.D., Jaime R.
APPLICANT: Cornfield Ph.D., Linda J.
TITLE OF INVENTION: Neuropeptide Y Receptor and Nucleic Acid
NUMBER OF SEQUENCES: 8
CORRESPONDENCE ADDRESS:
ADDRESSEE: McDonnell Boehnen Hulbert & Berghoff
STREET: 300 South Wacker Drive
CITY: Chicago
STATE: IL
COUNTRY: USA
ZIP: 60606
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/838,399
FILING DATE:
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: Greenfield Ph.D., Michael S.
REGISTRATION NUMBER: 37,147
REFERENCE/DOCKET NUMBER: 96,149/MH 405
TELECOMMUNICATION INFORMATION:
TELEPHONE: (312)715-1234
TELEFAX: (312)715-1000
INFORMATION FOR SEQ ID NO: 3:
SEQUENCE CHARACTERISTICS:
LENGTH: 2604 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA
HYPOTHETICAL: NO
ANTI-SENSE: NO
FEATURE:
NAME/KEY: CDS
LOCATION: 371..1708
FEATURE:
NAME/KEY: mat.peptide
LOCATION: 371..1705
US-08-838-399-3

Query Match
Best Local Similarity 49.6%; Score 52.4; DB 2; Length 2604;
Matches 134; Conservative 0; Mismatches 136; Indels 0; Gaps 0;

Db 1139 CATCTAGTGCCTTCCAGATTGATGATGATTTTGTGTTGGAATTAACCTGTTGT 1198
2334 CATCGTGTGATGTTCCAAATGTGAAGTCTAATGCTGCTGATTTCCAAATTTATAATA 2393
QY 1199 CCTATCACATATATGCCCTGAGGGTTGGCCAAATGATGACACAGAAGATTGAGA 1258
Db 2394 ACTTCTAAGTCACTTTTAAAGTCTGAGATGATGATGATGCTAGTGTGTTTAATA 2453
QY 1259 GGGGTCAATATAGAAAGCAATTTGCTCTGTGTGAGAGAGATGTTCTTGAATTA 1318
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RESULT 14
US-09-235-839-3

Sequence 3, Application US/09235839
Patent No. 6207799
GENERAL INFORMATION:
APPLICANT: Hu Ph.D., Yinghe
APPLICANT: McCalieb Ph.D., Michael L.
APPLICANT: Bloomquist Ph.D., Brian T.
APPLICANT: Flores-Riveros Ph.D., Jaime R.
APPLICANT: Cornfield Ph.D., Linda J.
TITLE OF INVENTION: Neuropeptide Y Receptor and Nucleic Acid
NUMBER OF SEQUENCES: 8
CORRESPONDENCE ADDRESS:
ADDRESSEE: McDonnell Boehnen Hulbert & Berghoff
STREET: 300 South Wacker Drive, 32nd Floor
CITY: Chicago
STATE: IL
COUNTRY: USA
ZIP: 60606
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/235,839
FILING DATE:
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/630,118
FILING DATE: April 8, 1996
ATTORNEY/AGENT INFORMATION:
NAME: Greenfield Ph.D., Michael S.
REGISTRATION NUMBER: 37,142
REFERENCE/DOCKET NUMBER: 96,149-C
TELEPHONE: (312)913-0001
TELEFAX: (312)913-0001
INFORMATION FOR SEQ ID NO: 3:
SEQUENCE CHARACTERISTICS:
LENGTH: 2604 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA
HYPOTHETICAL: NO
ANTI-SENSE: NO
FEATURE:
NAME/KEY: CDS
LOCATION: 371..1705
US-09-235-839-3

Query Match 3.7%; Score 52.4; DB 3; Length 2604;
Best Local Similarity 49.6%; Pred. No. 0.00057;
Matches 134; Conservative 0; Mismatches 136; Indels 0; Gaps 0;

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RESULT 15
US-09-327-035-3
Sequence 3, Application US/09327035
Patent No. 6368824
GENERAL INFORMATION:
APPLICANT: Hu Ph.D., Yinghe
APPLICANT: McCalieb Ph.D., Michael L.
APPLICANT: Bloomquist Ph.D., Brian T.
APPLICANT: Flores-Riveros Ph.D., Jaime R.
APPLICANT: Cornfield Ph.D., Linda J.
TITLE OF INVENTION: Neuropeptide Y Receptor and Nucleic Acid
NUMBER OF SEQUENCES: 8
CORRESPONDENCE ADDRESS:
ADDRESSEE: McDonnell Boehnen Hulbert & Berghoff
STREET: 300 South Wacker Drive
CITY: Chicago
STATE: IL
COUNTRY: USA
ZIP: 60606
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/327,035
FILING DATE: 07-Jun-1999
CLASSIFICATION: <Unknown>
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/838,399
FILING DATE: <Unknown>
ATTORNEY/AGENT INFORMATION:
NAME: Greenfield Ph.D., Michael S.
REGISTRATION NUMBER: 37,147
REFERENCE/DOCKET NUMBER: 96,149/WH 405
TELEPHONE: (312)715-1000
TELEFAX: (312)715-1234
INFORMATION FOR SEQ ID NO: 3:
SEQUENCE CHARACTERISTICS:
LENGTH: 2604 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA
HYPOTHETICAL: NO
ANTI-SENSE: NO
FEATURE:
NAME/KEY: CDS
LOCATION: 371..1708
US-09-327-035-3

Query Match 3.7%; Score 52.4; DB 3; Length 2604;
Best Local Similarity 49.6%; Pred. No. 0.00057;
Matches 134; Conservative 0; Mismatches 136; Indels 0; Gaps 0;

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QY 1259 GGGGTCAATATAGAAAGCATTTTGTCTGTGTGTGAGAGAGATGTTTCTTGATTAA 1318
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Search completed: December 22, 2004, 19:36:37
Job time : 156 secs

GenCore version 5.1.6
Copyright (c) 1993 - 2004 CompuGen Ltd.

OM nucleic - nucleic search, using sw model

Run on: December 22, 2004, 19:11:04 ; Search time 1104 Seconds

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Title: US-09-577-657A-2

Perfect score: 1427

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Scoring table: IDENTITY_NUC

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Searched: 4093002 seqs, 276041825 residues

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Minimum DB seq length: 0

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Post-processing: Minimum Match 10%

Listing first 45 summaries

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Published Applications NA:*

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21: /cgn2_6/ptodata/1/pubpna/US10H_PUBCOMB.seq:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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1	265.6	18.6	1250	US-10-425-114-25381	Sequence 25381, A
2	217.6	15.2	1684	US-10-310-154-160	Sequence 160, App
3	216.6	15.2	1391	US-10-424-599-97539	Sequence 97539, A
4	216.6	15.2	1391	US-10-425-114-14879	Sequence 14879, A
5	213.8	15.0	1321	US-10-469-993-9	Sequence 9, App1
6	208.8	14.6	1361	US-10-424-599-55985	Sequence 55985, A
7	208.8	14.6	1361	US-10-425-114-29623	Sequence 29623, A
8	201	14.1	1760	US-10-739-930-3508	Sequence 3508, App
9	197.8	13.9	1414	US-10-424-599-10289	Sequence 10289, A
10	152.8	10.7	1476	US-10-049-187-2	Sequence 2, App1
11	152	10.7	1170	US-10-049-187-1	Sequence 1, App1
12	151.6	10.6	1304	US-09-971-020-6	Sequence 6, App1

13	151.6	10.6	1304	US-10-802-773-6	Sequence 6, App1
14	151.2	10.6	1316	US-09-971-020-8	Sequence 8, App1
15	151.2	10.6	1316	US-10-623-854A-2	Sequence 2, App1
16	151.2	10.6	1316	US-10-623-854A-3	Sequence 3, App1
17	151.2	10.5	1360	US-10-802-773-8	Sequence 8, App1
18	149.2	10.5	1360	US-09-971-020-4	Sequence 4, App1
19	149.2	10.5	1360	US-10-802-773-4	Sequence 4, App1
20	145.8	10.2	1044	US-10-437-963-3348	Sequence 9348, App
21	139.2	9.8	1122	US-10-437-963-27582	Sequence 27582, A
22	138.8	9.7	1298	US-09-971-020-2	Sequence 2, App1
23	138.8	9.7	1298	US-10-802-773-2	Sequence 2, App1
24	134.4	9.4	1363	US-10-469-993-13	Sequence 13, App1
25	134	9.4	1155	US-10-623-854A-5	Sequence 5, App1
26	134	9.4	1155	US-10-623-854A-6	Sequence 6, App1
27	132.4	9.3	1155	US-10-623-854A-9	Sequence 9, App1
28	132.4	9.3	1155	US-10-623-854A-9	Sequence 9, App1
29	125	8.8	1137	US-10-437-963-10682	Sequence 10682, App
30	122.2	8.6	1392	US-10-437-963-169	Sequence 169, App
31	120.2	8.4	832	US-10-425-115-79945	Sequence 79945, A
32	112.6	7.9	562	US-10-021-323-12956	Sequence 12956, A
33	112.2	7.9	1128	US-10-437-963-93936	Sequence 93936, A
34	111	7.8	1307	US-10-425-114-25336	Sequence 25336, A
35	111	7.8	1678	US-10-425-115-147786	Sequence 147786, A
36	108.6	7.6	1344	US-10-437-963-12804	Sequence 12804, A
37	108.2	7.6	1494	US-10-310-154-162	Sequence 162, App
38	107.2	7.5	702	US-10-424-599-10605	Sequence 10605, A
39	107.2	7.5	1492	US-10-425-115-147782	Sequence 147782, App
40	107.2	7.5	1495	US-10-739-930-2009	Sequence 2009, App
41	107.2	7.1	1629	US-10-437-963-76286	Sequence 76286, A
42	100.2	7.0	1433	US-10-424-599-114531	Sequence 114531, A
43	98.4	6.9	1143	US-10-425-115-78833	Sequence 78833, A
44	98.2	6.9	1450	US-10-425-115-147784	Sequence 147784, A
45	98	6.9	680	US-10-424-599-40679	Sequence 40679, A

ALIGNMENTS

RESULT 1

US-10-425-114-25381

Sequence 25381, Application US/10425114

Publication No. US2004003488A1

GENERAL INFORMATION:

APPLICANT: Liu, Jingdong

APPLICANT: Zhou, Yihua

APPLICANT: Kovalic, David K.

APPLICANT: Screen, Steven E

APPLICANT: Tabaska, Jack E

APPLICANT: Cao, Yongwei

TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With

TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement

FILE REFERENCE: 38-21(5313)B

CURRENT APPLICATION NUMBER: US/10/425.114

CURRENT FILING DATE: 2003-04-28

NUMBER OF SEQ ID NOS: 73128

SEQ ID NO 25381

LENGTH: 1250

TYPE: DNA

ORGANISM: Gossypium hirsutum

FEATURE:

OTHER INFORMATION: Clone ID: LJB3829-008-C2_FLI

US-10-425-114-25381

Query Match 18.6%; Score 265.6; DB 16; Length 1250;

Best Local Similarity 56.3%; Pred. No. 2.8e-55;

Matches 590; Conservative 0; Mismatches 434; Indels 24; Gaps 4;

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DB 66 GAAATGAGGACGAGTTTTCATGACAGGAGCTGAGAGGAAAGCTATGCACTTA 125

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Qy      728 ACTTGTGTAGGCAATGTTCTGATCTTCAAGCATGCAAGCTGTTTACTTGGAACT 787
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Qy      848 CACCTTCAATATACCAAGCTATTTTGCATCACTTGAAGAAAGAAATATATGAGAG 907
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RESULT 2
US-10-310-154-160

; Sequence 160, Application US/10310154

; Publication No. US2003023670A1

; GENERAL INFORMATION:

; APPLICANT: Edgerton, Michael D

```

; APPLICANT: Chomet, Paul S.
; APPLICANT: Adams, Thomas H.
; APPLICANT: Ruff, Thomas G.
; APPLICANT: Agarwal, Ameeta K.
; APPLICANT: Ahrens, Jeffrey E.
; APPLICANT: Ball, James A.
; APPLICANT: Banu, G.
; APPLICANT: Bell, Erin
; APPLICANT: Boddupalli, Raghava
; APPLICANT: Deikman, Jill
; APPLICANT: Deng, Molian
; APPLICANT: Dong, Jizhuo
; APPLICANT: Duff, Stephen M.
; APPLICANT: Galligan, Meghan M.
; APPLICANT: Hinchey, Brenda S.
; APPLICANT: Huang, Shihshien
; APPLICANT: Johnson, G. Richard
; APPLICANT: Jung, Vincent
; APPLICANT: Kretzmer, Keith A.
; APPLICANT: Laccetti, Lucille B.
; APPLICANT: Lai, Chao-Qiang
; APPLICANT: Lee, Gary
; APPLICANT: Lin, Jie-Yi
; APPLICANT: Liu, Jinding
; APPLICANT: Lu, Bin
; APPLICANT: Luethy, Michael M.
; APPLICANT: Lund, Adrian
; APPLICANT: Madison, Linda L.
; APPLICANT: Malloy, Kathleen A.
; APPLICANT: McKiel, Christine U.
; APPLICANT: Miller, Philip W.
; APPLICANT: Padmayathi, Manchi Kant
; APPLICANT: Parnell, Laurence D.
; APPLICANT: Start, William G.
; APPLICANT: Tennessee, Dan
; APPLICANT: Vidya, K.R.
; APPLICANT: Wang, Haiyun
; APPLICANT: Xu, Zhanguo
; APPLICANT: Xu, Nanfei
; APPLICANT: Yang, Chunzhi
; APPLICANT: Zeng, Xiaoping
; APPLICANT: Zhao, YaJuan
; APPLICANT: Zhou, Li
; TITLE OF INVENTION: Gene Sequences and Uses Thereof in Plants
; FILE REFERENCE: 38-15(52796)B
; CURRENT APPLICATION NUMBER: US/10/310,154
; PRIOR FILING DATE: 2002-12-04
; PRIOR APPLICATION NUMBER: 60/337,358
; NUMBER OF SEQ ID NOS: 12-04
; SEQ ID NO 160
; LENGTH: 1684
; TYPE: DNA
; ORGANISM: Glycine max
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (26)..(1135)
; OTHER INFORMATION:
US-10-310-154-160

```

Query Match 15.2%; Score 217.6; DB 15; Length 1684;
Best Local Similarity 55.9%; Pred. No. 2.6e-43;

Matches 496; Conservative 0; Mismatches 359; Indels 33; Gaps 3;

```

Qy      80 GAAGTGAACGAGTGTGTTATGAAACGAGGGAAGAAAGTATGACAA 139
Db      28 GAAGTGAACGAGTGTGTTATGAAACGAGGGAAGAAAGTATGACAA 139
Qy      140 CTCTCTTTTCAAGCAAGAGTGCCTCAATGAGCAGCAGGCTAGAAATGCA 199
Db      88 CTCTCTTTTCAAGCAAGAGTGTGTTTGAACAAAGCCATTAAGAGGAAGCATTAAC 147

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; OTHER INFORMATION: Clone ID: PAT_MBT3847_59091C.1
US-10-424-599-97539
Query Match 15.2%; Score 216.6; DB 16; Length 1391;
Best Local Similarity 56.2%; Pred. No. 4.2e-43;
Matches 495; Conservative 0; Mismatches 344; Indels 42; Gaps 3

OY 80 GAAGGGAAGCAAGGTTGTCATGAACAAGGGGGGAGACAAAGTAGTATGACAAAA 139
   |||||
Db 56 GGAAGGACACAAGTAGTCACATATAAAGAGGCTCGGGAACAAACAGTATGAAACAA 115
   |||||

OY 140 CTCCTTTTCACGCAACAAGTGGCTCTCAATGGCAACAGCGCTAGAAAATGCACTTGA 199
   |||||
Db 116 TTCTCTTAGTTCAGCAAAAAGTGTATTTTGTGCAAAAGGATATGAGAGGAAGCATPAG 175
   |||||

OY 200 AACTCTCTCTCCAGAGATTTCACCTTCAAGCTTTAAGCAGCGCATTTGGTGTGC 259
   |||||
Db 176 CACCTCTCTACCGGAGACA--TGCTCCCAAGAAAGCCTTGCAATTCGGCATTTGGTCTCTC 232
   |||||

OY 260 AGGGGTCCAAACACATTCGCGAGATATTTCTAACAATCAAGAGATGATGAAAAAATG 319
   |||||
Db 233 TTCTGACCAAAACACTTCTTCTGTATATCTGAAGCTATPAAAATCGGGAGAAAGCTTTG 222
   |||||

OY 320 CAGGAAATGAATTGGCAAACTGCGAACTTCAGGTTTACTTGATGATCTTTTGGAAA 379
   |||||
Db 293 TCGAGAACTGAAATCATCAAGTCAACGAATACCAAGTCTACATGAACATCTTCCGGGAA 352
   |||||

OY 380 TGATTTCAATPACCTCTTCAAAAGC-----CTGCTGCTGAGT 418
   |||||
Db 353 TGATTTCAACAACATCTTCAAGTCCCTTGACAGCTTCAAGAGAACTGTGTATGAAT 412
   |||||

OY 419 TATTTGTAACAATGTGAGAAAGTCCGTTTATGTATGGGAATCCGGGCTTTTCCA 478
   |||||
Db 413 AATAAGAGCTGGCAAGAAATGTTCAATGTTTTTCAATGGGGTTCCAGGTTCTTTTGA 472
   |||||

OY 479 TGGCCGGGCTTTTTCCGCTGTAACGCTTACATTAGTTCATCTCTTACAGTGTTCATG 538
   |||||
Db 473 TGGCAGAGATCTTTCCAAACCAAAAGTGTGATTTTGTATCTCTGTAACGCTTATGTG 532
   |||||

OY 539 GCTTACTCAGCAACCAAAAGCATCAACAAGCAGAAAGCTTGGCATTTAAACAAGGGAA 598
   |||||
Db 533 GCATTCAAAGTTCC-----TGATGTTGAGAAACAATAAGGGCAA 574
   |||||

OY 599 GATTTACATATCAAAAGCAAGCCCTCTGTTGTGAAGAAAGCTTATATCTCAATTTCA 658
   |||||
Db 575 CATTTTCATGCGCAGCAACAAGTTCCTTAATGTCTTAAAGCTTATTAACGACAATATCA 634
   |||||

OY 659 TGAAGATTTCACAATGTTTCTCAATAGCTAAGATCCCAAGAGGTGTTCCAAATGTTGTAT 718
   |||||
Db 635 AAAGGATTTCTGTTGTTTTTTTGAAGTGTGAGCGGAACAAATCGTGAAGGGGTCGTAT 694
   |||||

OY 719 GGTGTTGATACTTCGTGTAGGCAATGTTTGTGATCTTTCAGACATGCAAGCTGCTTTAC 778
   |||||
Db 695 GGTTCGACATTTTGGGAAGAAAGAGAGATGATCTGACAAAGAGTTCGTATAT 754
   |||||

OY 779 TTGGGAACATTAAGTACTAGTGGCATTGCTGAATTTGGTTTCAAGGATTTGATATGAAGA 838
   |||||
Db 755 ATGGGAACATTTGGCTATGCTCTTAAAGATATGATGTCTCGAAGGGAATCATPAAAAGAGA 814
   |||||

OY 839 TAAATTAAGACCTTCAATATATCCAGCATTTTGGCATCACTTAGAGGAAGTGAAGATAT 898
   |||||
Db 815 GCAAAATGATACCTTCAACATCCCTCAATPACAGCCCATCCCATCTGAAGTGAATTTGA 874
   |||||

OY 899 AGTGAGAGGAGCGGATCATTCACATTTGATCATATNAGG 939
   |||||
Db 875 GGTTCAAAAGGAAGGTTCATTTAGCATTAAGTGTGAGG 915
   |||||

RESULT 4
US-10-425-114-14879
; Sequence 14879; Application US/10425114
; Publication No. US20040034888A1
; GENERAL INFORMATION:

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Query Match	15.2%	Score 216.6;	DB 16;	Length 1391
Best Local Similarity	56.2%;	Pred. No. 4.2e-43;		
Matches 495; Conservative	0;	Mismatches 344;		

[illegible]

```

RESULT 6
US-10-424-599-55985
; Sequence 55985, Application US/10424599
; Publication No. US20040031072A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa Thomas J
; APPLICANT: Kovalic David K
; APPLICANT: Zhou Yihua
; APPLICANT: Cao Yongpei
; TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated With
; FILE OF INVENTION: Plants and Uses Thereof for Plant Improvement
; FILE REFERENCE: 38-21 (53223) B
; CURRENT APPLICATION NUMBER: US/10/424,599
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 285684
; SEQ ID NO 55985
; LENGTH: 1361
; TYPE: DNA
; ORGANISM: Glycine max
; FEATURE:
; OTHER INFORMATION: Clone ID: PAT_MRT3847_21565C.1
US-10-424-599-55985

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Oy      449  TTATGTGATGGAGATACCGGAGGCTTTTCCATGGCCGGCTTTTTCCTGTAACAGCTTACA 508
Db      358  CTTATTTATGTACTACCCCGGATCCTTCCATGGAGGCTCTTTCCCAATATTTCCATAAA 417
Oy      509  TTTAGTTCATTCTCTTTCACAGTGTTCATTGGCTTACTCAGGACCAAAAAGACTCAAG 568
Db      418  CCTTTTTCATTCCGCCAACAGTTTACAGTTCAGCTTTCTCAGATTCATTTATGGAGTTTAC 477
Oy      569  CAGAGAAAGCTTGGCATTTAAACAAAGGGGAAGTTTACATATCAAAAGACAAGCCCTCTGT 628
Db      478  TAAGAGGACAGAAATATTAAACAAAGGACACTGTATATAGTAAAGCAAGACCCCTCAGC 537
Oy      629  TGTAAGAGAGGCTTACTTATCTCATTTTCATGAAAGTTTACAAATGTTTCTCAATGCTAG 688
Db      538  TGATATCCAAAGCTTACTTTAAGCAATTTCCACAAAGCTTTAAATTTTTTTTGAATACAG 597
Oy      689  ATCCCAAGAGGTGTGTTCCAAATGTGTATAGTGTGTGATCTCTGTGTAGGCAATGTTC 748
Db      598  TTCCGAGGAACTTGTGCGCAGAGGAGCAATGCTCTTATTTGTTTCTTGGCAAAAATAAAC 657
Oy      749  TGATTCCTCAGACATGCAGAGCTGCTTTACTTGGGAACTATTAGCTATGAGCCATTGCTGA 808
Db      658  TCAT-----AGAAAGAACTGTGTGGGAAATAATTAGCCTAGTACTCATGA 702
Oy      809  ATTGCTTTCACAGAGATTTGATATGATGAAGATTAATTAACACCTTCAATATCCAGCTA 868
Db      703  CATGCTCTTGGAGGGTTGATTTGAAGAAAGAAATTTGACTCTCTTTAACATACAGTGA 762
Oy      869  TTTTGATCATCTTGTGAGAAAGTGAAGATATATAGTGAAGAGGAGCGATCAATTCACAATTGA 928
Db      763  TGAACCTTCACTGTGAAGAAATTTAGGCACTGTATTCAGAAAGAGGCTCATTTCTTCA 822
Oy      929  TCATATAGAGGGGTTTGAATCTTGAATAGCGTAGA-----AATGCAAGAAATGATTAATG 982
Db      823  ACAATTAGAGATTTTAATCTTGCTTGGGATGAAGGCTTAAATGAAGGTTGATGATCAAA 882
Oy      983  GGTTAGAGGGGAAAAAGTTTACCAAGGTTGTACAGGCCCTTCAAGAGCCCTATATTTCCAA 1042
Db      883  TATTAAGGCCCAATTCATGAGCCAAAGGTGCAAGACCAATTAAGAGCCCTCTCTTGCTGC 942
Oy      1043  CCAGTTTGGACCTGAAATCATGAGCAAACTATATGACAAATTCACCTCAGATTGATTTTC 1102
Db      943  AAAGTTTGAAGAGAGATTAATATATGAAATTTCTACAGTATGAAAAAGAACTTGGCA 1002
Oy      1103  AGATTTTGAACAAAGCTACCGAAGACCAACAATATCAATCTAGTGCCTTTCAGAAATTGA 1162
Db      1003  ACTGATGGAATGAGAAATTTGAGATCTACTTCTTTTGATATATCATGACAAAAAATGC 1062
Oy      1163  TTGA 1166
Db      1063  TTGA 1066

RESULT 7
US-10-425-114-29623
: Sequence 29623, Application US/10425114
: Publication No. US20040034888A1
: GENERAL INFORMATION:
: APPLICANT: Liu, Jingdong
: APPLICANT: Zhou, Yihua
: APPLICANT: Kovalic, David K.
: APPLICANT: Screen, Steven E
: APPLICANT: Tabaska, Jack E
: APPLICANT: Cao, Yongwei
: TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
: TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
: FILE REFERENCE: 38-21(5313)B
: CURRENT APPLICATION NUMBER: US/10/425,114
: CURRENT FILING DATE: 2003-04-28
: NUMBER OF SEQ ID NOS: 73128
: SEQ ID NO 29623
: LENGTH: 1361
: TYPE: DNA

```

ORGANISM: Glycine max
 FEATURE:
 OTHER INFORMATION: Clone ID: UC-GNPLMINSOY09P11_FLI
 US-10-425-114-29623

Query Match 14.6%; Score 208.8; DB 16; Length 1361;
 Best Local Similarity 52.7%; Pred. No. 3.6e-41;
 Matches 571; Conservative 0; Mismatches 477; Indels 36; Gaps 4;

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QY 101 CATGAACAGGGGAGAGAGAAAGTATGTTATGACAAAACCTCTTCTTACGACACAGT 160
   |||||
DB 1 CATGAATATGTGGAGAGAGAGAAAGATGATGCAAACTCATGTATCAAAAAGAAATT 60
   |||||
QY 161 GGCCTCAATGGCAACAGCCAGCGCTAGAAAATGACATTTGAATCTCTTCTCAAGATTT 220
   |||||
DB 61 AATGATTTAAAGCAAAATATATCTAGAGA---ACTATTAACGATTTTATACAAATTA 117
   |||||
QY 221 CCACCTTCAAGCTTTAAGCGCGGACTTGGGTTGTCAGCGGGTCCAAACACATTCGC 280
   |||||
DB 118 TTCTCCAGCTTCAGAGAAAGTGGCAGATTAGGTGTTCTGAGACCAAAATACCTCT 177
   |||||
QY 281 AGTGAATTTCTAGATCAAGAGATGATGAAAAGAAATGCGAGAAATTTGAATTCGCAAC 340
   |||||
DB 178 TGTGATATCAAAATATATCATTTGATGATACACATGACCCGCTTGATCAAGAAC 237
   |||||
QY 341 ACTGGAATTCAGGTTTACTGATGATCTTTTGAATGATTTCAATACCTCTTCA 400
   |||||
DB 238 ACCCAGCTTCCAAATTTATCTCAATGATTTGTTGAAATGATTTCAATACACCTTCA 297
   |||||
QY 401 AGGCTGTGCTCT-----GAGGTATTTGGTAACAATGAGAGAGAGTCCG 448
   |||||
DB 298 GTCTCTTCTGATTTCTATAAAAGATGATGAAGATAGGAGACACAAGTTGGTTCA 357
   |||||
QY 449 TTATGATGAGAGTACCGGGCTTTTCATGCGCGCTTTTCTCTGATACAGTTTACA 508
   |||||
DB 358 CTTTATTAATGCTACCCGGATCTCTTCATGAGAGCTCTTCTCCAAATATTTCCATTA 417
   |||||
QY 509 TTTAGTTCATCTCTTACAGTGTTCATTTGAGCTTACTCAGGACCCAAAAGACTACAAG 568
   |||||
DB 418 CTTTTCATTTCCGCCAAGTTTACATGCTGCTTTCTCAGATTCCTATTTGAGATTTAC 477
   |||||
QY 569 CAGGAAGGCTTGGCTTTAAACAGGGGAAATTTACATATCAAAAGACAGCCCTCTGT 628
   |||||
DB 478 TTAGAGGAGCAATTCATTTAAACAGGAGACATGCTATATGTTACACAGCCCTCCAGC 537
   |||||
QY 629 TGTAGAGAGCTTACTTATCTCAATTTGATGAGATTTCAATGTTCTCAATGCTAG 688
   |||||
DB 538 TGTATACCAAGCTTACCTTAAGCAATTTCAACAGACTTTAAATTTTGTGAATACAG 597
   |||||
QY 689 ATCCCAAGGTGTGCTTCAATGTTGATGTTGATGTTGATGTTGATGTTGATGTTG 748
   |||||
DB 598 TTGAGAGAACTTGTGCGAGAGAGCAATGCTTATTTGTTCTTGGCAAAAATAAAC 657
   |||||
QY 749 TGATCTTTCAGACATGACAGAGCTGCTTTACTTGGGAATATTTACTATGCGCATTTG 808
   |||||
DB 658 TCAT-----AGGAAGACGTGTTGGGAATATTTAGCCCTATGATCTCATGA 702
   |||||
QY 809 ATTGTTTCACAGGATTTGATGATGAAGATTAATTTAGACACTTCAATATCCAGCTA 868
   |||||
DB 703 CATGCTCTTGGAGGTTTGTATGTAAGAAAGAAATTTGAGACTCTTTAACTACAGATG 762
   |||||
QY 869 TTTTGATCAGCTTGGAGAGTGAAGATATATGAGAGAGAGAGAGATCATTTCAATGA 928
   |||||
DB 763 TGAACCTTACAGTGAAGAAATTTAGCATGATTCAGAGAAAGAGGCTATTTCTTCTCA 822
   |||||
QY 929 TCATATTAAGGGGTTTGTATCTTGAAGCGTGA-----AATGACAGAGATGATAAAG 982
   |||||
DB 823 ACAATTTAGAGTTTAAATCTTGCTTGGAGTGAAGGCTTAATGAAGGTGTTGATGCA 882
   |||||
QY 983 GGTAGAGGGGAAAGTTTACCAAGTTTTCAGGGGCTTCAAGAGCTTATTAATTTCAA 1042
   |||||
DB 883 TATTAAGCCCAATTCATGCGCAAGGTTCAGAGAGCAATTAATGAGCTCTTGTCTGTC 942
   |||||

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QY 1043 CAGTTTGAACCTGAAATATGACAACTATATGACAAATTCCTACTCATTTGATTTTC 1102
   |||||
DB 943 AAAGTTTGAAGAGAGATTAATTAATGAGTATTTCACTCAGTATGAAAAGAACTTGC 1002
   |||||
QY 1103 AGATTTGAAGCAAGCTTACCGAAGCCAGCAAGATATCTTATGCTTTTCCAGATTTGA 1162
   |||||
DB 1003 ACTGATGAAAGTGGAGAAATTTGAGCTTACTTTTGTGATTCATGACAAAATATGC 1062
   |||||
QY 1163 TGA 1166
   |||||
DB 1063 TTGA 1066
   |||||

```

RESULT 8
 US-10-739-930-3508
 ; Sequence 3508, Application US/10739930
 ; Publication No. US20040216190A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Kovalic, David K.
 ; TITLE OF INVENTION: NUCLEIC ACID MOLECULES AND OTHER MOLECULES ASSOCIATED WITH
 ; FILE REFERENCE: 38-21(53377)B
 ; CURRENT APPLICATION NUMBER: US/10/739,930
 ; NUMBER OF SEQ ID NOS: 11088
 ; SEQ ID NO 3508
 ; LENGTH: 1760
 ; TYPE: DNA
 ; ORGANISM: Glycine max
 ; FEATURE:
 ; OTHER INFORMATION: Clone ID: GLYMA-23APR03-CLUSTER34757_1
 US-10-739-930-3508

Query Match 14.1%; Score 201; DB 18; Length 1760;
 Best Local Similarity 51.1%; Pred. No. 3.5e-39;
 Matches 533; Conservative 0; Mismatches 495; Indels 15; Gaps 2;

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QY 80 GAAGTGAACGAAGTGTGTTATGAAACAGGGGAGAGAGAAAGTATGACAAAA 139
   |||||
DB 419 GATATGAGAAAGGCTTCCATGATGAGAGATTTGGCAAACTGCTATGCCAGAA 478
   |||||
QY 140 CTCTTCTTTCACGCAAAAGTGGCTCAATGSCACAGCCGCTGAAAATGCAATTGA 199
   |||||
DB 479 TTCTCTACTAGAGAAAGAGATCTGATTAAGTGAAGCATTAATCAACAAAGTTGA 538
   |||||
QY 200 AACTCTTCTTTCAGAGATTTCCACTTCAAGCTTTAACGACGAGACTTGGTGTGC 259
   |||||
DB 539 GAGC---TCTACCTTTCGACACTCCAAAGAGCATGAGCATTTGCTGATTTGGCTGCTC 595
   |||||
QY 260 ACGGGGTCCAAACACATTCGAGTGAATTTCTACAGATCAAGAGATGATGAAAAGAAATG 319
   |||||
DB 596 CTCTGACCAAAACCCCTATCATCATCAAAAGATATCTTTCAGGCCATCCAAAGCATTAAG 655
   |||||
QY 320 CAGGGAATTTGATTTCCAAACATGAACTTCAAGTTTACTGAAATGATCTTTTGGAAA 379
   |||||
DB 656 CCAAGATTCATGACCACTCCACAGAGTTCAAGGTGTACTTCAATGATTTCCAAAGAA 715
   |||||
QY 380 TGATTTCAATACCTTTCAAAGGCTGTGCTGAGGTTAT-----GTAA 427
   |||||
DB 716 TGACTTCATTAATCTTCAAGGCCATCCAGATTTCCAAATTTGCTTAGCAAGACAG 775
   |||||
QY 428 CAAATGTGAGAAAGTTCGTTATGATGAGAGTACCGGGGCTTTTCATGCGCGCT 487
   |||||
DB 776 GAAAATGTGTTCCCTTTCATTTGAGGAGGCTACCTGCTCATTTTATGAGAAAGCT 835
   |||||
QY 488 TTTTCTCTGTAAGCTTATGATTTATCTTCAATGCTTTTCAAGTGTTCATTTGCTTAC 547
   |||||
DB 836 GTTCCCAAAAGATTAATTTGATCTTGTCTTCACTCTTCAAGTCTTCAAGTCTTCAAG 895
   |||||
QY 548 GGCACCAAAAGACTCAAGAGAGAAAGGCTTGCATTTAAACAGAGGAGATTTAAT 607
   |||||
DB 896 GGTTCCTCAGCACTTATATGATGACACAAAAGGCTTTGAAACAAAGGCTGTTTACAT 955
   |||||

```



```

RESULT 9
US-10-424-599-10289
/ Sequence 10289, Application US/10424599
/ Publication No. US20040031072A1
/ GENERAL INFORMATION:
/ APPLICANT: La Rosa Thomas J
/ APPLICANT: Kovalic David K
/ APPLICANT: Zhou Yihua
/ APPLICANT: Cao Yongwei
/ TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated With
/ TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
/ FILE REFERENCE: 38-21(53223)B
/ CURRENT APPLICATION NUMBER: US/10/424,599
/ CURRENT FILING DATE: 2003-04-28
/ NUMBER OF SEQ ID NOS: 285684
/ SEQ ID NO 10289
/ LENGTH: 1414
/ TYPE: DNA
/ ORGANISM: Glycine max
/ FEATURE:
/ OTHER INFORMATION: Clone ID: PAT_MRT3847_109300C.1
US-10-424-599-10289

```

13.9%;	Score 197.8;	DB 16;	Length 1414;
50.9%;	Pred. No. 2e-38;		
0;	Mismatches 497;	Indels 15;	Gaps 2

RESULT 10
US-10-049-187-2
: Sequence 2, Application US/10049187
: Publication No. US20030064895A1
: GENERAL INFORMATION:
: APPLICANT: CHOI, YANG-DO
: APPLICANT: CHEONG, JONG-JOO
: APPLICANT: LEE, JUNG-SEOB
: APPLICANT: SONG, JONG-TAE

; APPLICANT: SONG, SANG-UK
 ; APPLICANT: SEO, HAK-SOO
 ; APPLICANT: KOO, YEON-JONG
 ; TITLE OF INVENTION: GENES FOR S-ADENOSYL L-METHIONINE: JASMONIC ACID
 ; TITLE OF INVENTION: CARBOXYL METHYLTRANSFERASE AND A METHOD FOR THE
 ; TITLE OF INVENTION: DEVELOPMENT OF PATHOGEN- AND STRESS-RESISTANT PLANTS
 ; FILE REFERENCE: 058333/0112
 ; CURRENT APPLICATION NUMBER: US/10/049,187
 ; CURRENT FILING DATE: 2002-06-13
 ; PRIOR APPLICATION NUMBER: PCT/KR01/00953
 ; PRIOR FILING DATE: 2001-06-05
 ; NUMBER OF SEQ ID NOS: 8
 ; SOFTWARE: PatentIn Ver. 2.1
 ; SEQ ID NO 2
 ; LENGTH: 1476
 ; TYPE: DNA
 ; ORGANISM: Arabidopsis thaliana
 ; FEATURE:
 ; NAME/KEY: CDS
 ; LOCATION: (15)..(1181)
 ; OTHER INFORMATION: open reading frame for JMT
 US-10-049-187-2

Query Match 10.7%; Score 152.8; DB 14; Length 1476;
 Best Local Similarity 48.8%; Pred. No. 3e-27;
 Matches 54; Conservative 0; Mismatches 522; Indels 45; Gaps 3;

QY 68 AGCTACTGCGGGGAGGAGTGAACGAGTGTTCATGAACAGGAGGGGAGGAGGAAGTGA 127
 DB 5 AGAGAGAGAGATGAGGTATAGCGAGTTCACATGAGAACAGGAGGAGGAGGAGGAGGAG 64
 QY 128 TTATGCAACAACTCTCTTCTTCAAGCAAGTGGCTCAATGAGCAGCCAGCGGTAGA 187
 DB 65 TTATGCCAACAATCTCCACGCTCAGACCAATATATCTCTAGGAGAGAGTATAGA 124
 QY 188 AAATGCAATTGAATCTCTCTCCAGAGATTTCCACTTCAAGCTCTTAAAGCAGCGGA 247
 DB 125 CGAGGCTTGAAGATTAATGATGCAATTCAGAGATTTGAGCAATTTGAGATGCGGA 184
 QY 248 CTGGGTTTGAGCGGGGTCGCAACCATTCGCAATTTTACGATCAAGAGATGAT 307
 DB 185 CTAGGCTCTCTCTCGGTCGCAACCATTCCTTTCACATCTCAACATATGTTGACAGAT 244
 QY 308 GGAAGAAATGACAGGAGATTAATGCAACATCTGAACTTCAAGTTTACTGAATGA 367
 DB 245 CCAACAATTGTGTCTGACCTGACCGCTCACTCTGAGCTCAGAGTCTCTTCACAGA 304
 QY 368 TCTTTTGGAAATGATTTCAA-----TACCTCTTCAAGGCTGCTGCTGAGGT 418
 DB 305 CTTCCCTAGCAATGACTTCACTACATATGCTCTTTCGCAAGTTTACGACCGGT 364
 QY 419 TATTTGGTAAACAA-----TGTAGAGAAAGTTCGTTTATGTGAT 457
 DB 365 TATATATACAAAGAGGTTTATGAGGTGCGTCTGAGAGAGAGAAATGTTTGTGTC 424
 QY 458 GGGAGTACCGGGGCTTTCATAGCGCGCTTTTCTCTGTAACAGCTTACATTTAGTTCA 517
 DB 425 GGGCGCTCCAGGTTGCTTACAGGACGTTTCTTCTGCGGAGCCTTCACTTTGTGCA 484
 QY 518 TTCCCTTACAGTGTTCATTTGCTTACGAGCA-----AAAGGACT 562
 DB 485 TTTCTTCTTCAATGTTTACATGTTGTCTCAGTTCATATGCTGAGGCGGAGAGAGAGA 544
 QY 563 CACAAGCAGAGAGGCTTGGCATTTAAACAGGGGAGATTTTACATATCAACAGCAAGCCC 622
 DB 545 CAGAGCATATACAGTGTATTTAGAAACATGGGAGAAATATACATCAACAGCAAGTCC 604
 QY 623 TCTCTTTTAAAGAGGCTTATCTATCTCAATTTCAATGAAGATTTTCAATGTTTTCGA 682
 DB 605 TAAAGAGTGCATTAAGGCTTATGCTTCAATTCGCAACGATTTTCTGTGTTTGTGAG 664
 QY 683 TGATAGATCCCAAGAGGTGTTCGAATGTTGATGTGTGATATCTTGTGTGAGGA 742

DB 665 GTACACATCTGAGAGTGTCTCCGAGAGCGCGAATGTTTATGCTTCTGTGATAGAG 724
 QY 743 ATGTTCTATCTCTGACATGACATGACAGGCTTTTACTTGGAACTTATGCTATAGGCCAT 802
 DB 725 ATCACTGATATCCCAACAGGAGAGGTTGCTATCAATGAGGAACCTTCACTCAAGCTCT 784
 QY 803 TCTGAATTTGTTTCAAGGAGATGATGATGAATTAATTAACACCTTCAATATACC 862
 DB 785 TATGTCATGCGCAAGAGGGATATCATGAGAGAGAGATGATGCTTTCACGCTCC 844
 QY 863 CAGCTATTTTGATCTGAGAGAGTGAATGAATGATATATGAGAGGAGCGGATCATTCAC 922
 DB 845 TTACTATCTGCGAGCTCCGAGAGGTTGAAATGATATGAGAGAGAGAGGCTCATTTTC 904
 QY 923 AATGATCATATPAGAGGGGTTTATCTTGAATGAGTGAATATGAGAGAGATATATATG 982
 DB 905 GATGATAGGCTTGAATGATGATCCGATTTGAGAGAGTGGAGATTCAGTAGAGAG 964
 QY 983 GGTAGAGGAGAGAGTTTACCAAGTTGTCAAGGCTTCAAGAGCTTCAATTAATTTCAA 1042
 DB 965 TTATGACCTTGCATTAAGTTCAAACCGAAGCCCTAGCTAGTGTGCGGAGAGTGTCTA 1024
 QY 1043 CCAAGTTGACCTGAAATTCATGACCAATATATGCAATTTCACTCATTTGTATTTTC 1102
 DB 1025 TACCATTAAGAGCTGTGTGTCAGCCGATGCTAAGACCTTCTGTGTAATGTATGGA 1084
 QY 1103 AGATTTGAGAACAAAGCTTACGAGACC 1130
 DB 1085 CGAGCTTTTGAAGAGTATCAAAAGATC 1112

RESULT 11
 US-10-049-187-1
 ; Sequence 1, Application US/10049187
 ; Publication No. US20030064895A1
 ; GENERAL INFORMATION:
 ; APPLICANT: CHOI, YANG-DO
 ; APPLICANT: CHEONG, JONG-JOO
 ; APPLICANT: LEE, JONG-SEOB
 ; APPLICANT: SONG, JONG-TAE
 ; APPLICANT: SONG, SANG-UK
 ; APPLICANT: SEO, HAK-SOO
 ; TITLE OF INVENTION: GENES FOR S-ADENOSYL L-METHIONINE: JASMONIC ACID
 ; TITLE OF INVENTION: CARBOXYL METHYLTRANSFERASE AND A METHOD FOR THE
 ; TITLE OF INVENTION: DEVELOPMENT OF PATHOGEN- AND STRESS-RESISTANT PLANTS
 ; FILE REFERENCE: 058333/0112
 ; CURRENT APPLICATION NUMBER: US/10/049,187
 ; CURRENT FILING DATE: 2002-06-13
 ; PRIOR APPLICATION NUMBER: PCT/KR01/00953
 ; PRIOR FILING DATE: 2001-06-05
 ; NUMBER OF SEQ ID NOS: 8
 ; SOFTWARE: PatentIn Ver. 2.1
 ; SEQ ID NO 1
 ; LENGTH: 1170
 ; TYPE: DNA
 ; ORGANISM: Arabidopsis thaliana
 US-10-049-187-1

Query Match 10.7%; Score 152; DB 14; Length 1170;
 Best Local Similarity 48.9%; Pred. No. 4.2e-27;
 Matches 536; Conservative 0; Mismatches 515; Indels 45; Gaps 3;

QY 80 GAAGGTGAACAAGTGTTCATGAACAGGAGGAGGAGAGAGAGATGATGACACAAA 139
 DB 3 GAGGTATATGCAAGTCTTCAATGAACAAAGAGAGAGAGAGAGAGATGATGACAAAG 62
 QY 140 CTCTTCTTTCAGGACAAAGTGGCTCAATGAGCAGCCGCTGAGAAATGACAGTGA 139
 DB 63 CTCACCGCTCAGAGCAACATATATCTTAGGCAAGAGATGATGAGCAGAGGCTTGA 122

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Oy 200 AACTCTCTTCACAGATTTCACCTTCACCTTCACGAGCGGACTTGGTGGC 259
Db 123 GAAGTTATGATGACATTCAGATTTTCAGCATGGAATCGCGACTTGGCTGCTC 182
Oy 260 AGCGGCTCCAAACACATTCGAGTATTTCAACATCAAGAGATGATGAAAGAAATG 319
Db 183 CTCGGCTCCGAACATCTTGTCTCCATCCAACTAGTTGACAGATCCAACTTGG 242
Oy 320 CAGGAAATGATTCGCAACATGAACTTCAAGTTTACTGATGATCTTTTGGAA 379
Db 243 TCTGACCTCGACCGTCCAGTCCGAGTCCAGATCTCTCAACGACTCCCTAGCA 302
Oy 380 TGATTTCA-----TACCCTTCACAGCGCTGCTGAGTATTTGTAACA 430
Db 303 TGACTTCAACTACATATGTGCTTCTTGCAGAGTTTACGACCGGGTTAATTAACA 362
Oy 431 AT-----GTGAGAACTTCGTTATGATGAGAGTACCGG 469
Db 363 GAGGGTTTAGGCTTCGGTGTGAGAGAGAAATGTTTGTGCGCGCTCCAG 422
Oy 470 GTCTTTCATGCGCGGCTTTTCTCTGTAACGCTTACATTTAGTTCACTCTTACG 529
Db 423 TTCGTTCAACGACGTTTGTCTCTGCGGAGCCTTCACTTGTGCACTTCTTCTAG 482
Oy 530 TGTTCATGCGCTTACTCAGGACCA-----AAAGACTCACAAGAGAGA 574
Db 483 TTTACATTTGTTGTCTCAGGTTCCATGTCGTAGCGGAGAGAGAGACAGACATTAAC 542
Oy 575 AGGCTTGCATTAAACAGGGAGATTTACATATCAAGACAGCCCTCTGTTTAA 634
Db 543 AGCTATTTAGAAAATGCGGAAAATATACATATCAAGACAGCTTAAAGTGACACA 602
Oy 635 AGAAGCTTACTATCTCAATTTACGAAATTTCAATGTTTCTCAATGCTAGTCCCA 694
Db 603 TAAAGCTTATGCTCTTCAATTTCCAACTGATTTCTGTTTTTGTAGGTCACGATCGA 662
Oy 695 AGAGTGTGTTCCAAATGTTGTATGTTGATCTTCTGTTGAGCAATGTTGATCC 754
Db 663 GAGTGTGTTCCGAGGAGGCGGAAATGTTTATGTTCTTGTGTAAGATCACTGAAATCC 722
Oy 755 TTCAGACATGACAGCTCTTTCATTTGGAACATATTAGCTATGCGCATTTGCTGAATG 814
Db 723 CACAACGAGAGAGTGTCTATCATATGGAATCTCTAGCTCAAGCTCTTATGTCATG 782
Oy 815 TTCACAGGATTTGATGATGAAGATTAATTAACACCTTCAATATACCACTATTTG 874
Db 783 CAAGAAGGATTCATCGAGAGAGAGATGATGATCTTTCACGCTCTTACTATGCTGC 842
Oy 875 ATCACTTGAAGAGTGAAGATATAGTGAAGAGAGAGAGATTCATCAATGATCATAT 934
Db 843 GAGCTCCGAAGGTTGAAATGTTGATAGAGAAAGAGGTTCAATTTGATGATAGCT 902
Oy 935 AGAGGGTGTGATCTTGTATAGCTGTAAGAAATGCAAGAGATGATTAATGGTTAGAG 994
Db 903 TGAATATAGTCCGATTTGATGGGAAGTGGAGTATCACTGAGAGATTAATGACCTTGC 962
Oy 995 AAAGTTTACAAAGTTTCAAGGCGCTTCAAGAGCTTATATTCAACCACTTTGAGC 1054
Db 963 AATAAGTTCAAAACCCGAAAGCCCTAGTATGTCGGAAGAGTGTCTAATACCATTAAG 1022
Oy 1055 TGAATATGAGCAACTATATGACAATTCACATGTAATGTTGATGATTTGGAAGC 1114
Db 1023 TGTGTTCAAGCCGATGCTAGAACCTTCTTGTGTAAGATGATGAGAGCTTTTGA 1082
Oy 1115 AAAGCTACGAGAGAC 1130
Db 1083 AAGGTATGCAAAAGATC 1098

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RESULT 12
 US-09-971-020-6
 ; Sequence 6, Application US/09971020
 ; Patent No. US20020108143A1

```

; GENERAL INFORMATION:
; APPLICANT: Sano, Hiroshi
; APPLICANT: Kusano, Tomonobu
; APPLICANT: Koizumi, No. US20020108143A1om
; TITLE OF INVENTION: Theobromine Synthase Polypeptide of Coffee Plant and the Gene
; FILE REFERENCE: 026350-068
; CURRENT APPLICATION NUMBER: US/09/971,020
; PRIOR FILING DATE: 2001-12-18
; PRIOR APPLICATION NUMBER: JP 2000-307,149
; NUMBER OF SEQ ID NOS: 8
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 6
; LENGTH: 1304
; TYPE: DNA
; ORGANISM: Coffea arabica
US-09-971-020-6

Query Match      10.6%  Score 151.6; DB 9; Length 1304;
Best Local Similarity 51.9%; Pred. No. 5.5e-27;
Matches 464; Conservative 0; Mismatches 394; Indels 36; Gaps 4;

Oy 80 GAAGTGAACGAAGTGTGTTCAATGACAGGAGGAGAGAGAAAGTATGACAAA 139
Db 46 GAGCTCCAGAAAGTCTGATATGATGAGAGGAGAGAGATGACACTAGCCAAAGA 105
Oy 140 CTCTTCTTTCACGCAACAGTGGCTCAATGACACAGCAGCGCTAAGAAAATGACATTGA 199
Db 106 TTCATCTTCAATCAATCACTGTTCTGCCAAGTGAACCTGTCTTGAACAATGCTAG 165
Oy 200 AACTCTCTTCACAGATTTCACCTTC-----AAGCTTAAACGAGGAGCTTGG 253
Db 166 GAATTTGTGGGGCCAACTTGGCCACATCAACAGTGCATTAAGTTGGGATTTGG 225
Oy 254 TTGTCACGCGGATCCAAACACATTCGAGTATTTCTACATCAAGAGATGATGAAA 313
Db 226 ATGCGCTTCGGAACCAACACACTTTTAACAGTTGCGAATTTGACAAAGATTTGACA 285
Oy 314 GAATGACAGGAATGAAATTCGCAACACTGGAAC-----TTCAAGTTTACTTGAATGA 367
Db 286 AGTTAGCGCAAGAAATGAAGATGAAATGAACGTCCACCATTCAGGTTTTTCTGACTGA 345
Oy 368 TCTTTTGAATATATTTCAATACCTCTTCAAGGCGCTGCTGTAG----- 416
Db 346 TCTTTTCCAAATATGATTTCAATCGGTTTATGTTGCTGCAAGTTTCTACCGCAACT 405
Oy 417 -GTTATTTGTTAAACAATGTGAGAAATTCGTTATGATGAGAGTACCGGGCTCTT 475
Db 406 TGAGAAAGAAATGAGACCAAGATGATGATCGTCTAATACCGCAATGCTGCTCTT 465
Oy 476 CCATGCGCGCTTTTCTCTGTAACAGCTTACATTTAGTTCAATTCCTTCAAGTGTCA 535
Db 466 CCAGGCGAGACTCTTCCCGAGAGTCAATCATTTTTCACCTTCTTCAAGCTTCA 525
Oy 536 TTGCTTCTAGGACCAAAAGACTCAACAGCAAGAAAGCTTGGATTAACAAAG 595
Db 526 ATTTTATCCAGGTTTCCACGCGTTGTGATCTGAATTTGGAGATCACTGGAACAAAG 585
Oy 596 GAAGATTTACATATCAAGAGACCCCTCTGTTGTAAGAGAGCTTATCTTCAAT 655
Db 586 GAGCATTTACTCTTCCAAAGCAAGTCTCCCGCCGCTCAGAAAGCATTTTGTGATCAAT 645
Oy 656 TCATGAAATTTCAACATGTTTCTCAATGCTAGATCCCAAGAGTGTTCCAATATGTTG 715
Db 646 TACGAAGATTTTACCATTTTAAAGATTCGTTGGAAGATGTTTCAACGCGCG 705
Oy 716 TATGTTGATGATCTCTGTTAGGCAATGTTGATCTTCAACATGAGAGTGT 775
Db 706 AATGCTCTTACTTGCATTTGCAAGAGAT-----GAATTCAGCGGCGCA 753
Oy 776 TACTTGGAACTATGATGATGCTGATTTGTAATGTTTACAGGAGATGATGATGA 835

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Db 754 TACCATGACTTACTTATGATGCAATTAACGACTGTTGTTGAGGACATCTGGAGA 813
 QY 836 AGATAATTAGACCTTCATATATACCAGTATTTTGCATCACTTGAGAGAGTGAAGA 895
 Db 814 AGAAAAATTGACAGTTTCAATGTTCAATCTATGACGTTCTAGTAGAAGATTAAGTG 873
 QY 896 TATAGTGAGAGGAGCGATCATCAATTTGATCATATATAGAGGGTTGATCT 949
 Db 874 CATAGTTGAGGAGGAGAGGTTCTTTTGAATTTTGTACTTGAGACATTTTAAGCT 927

RESULT 13

US-10-802-773-6
 ; Sequence 6, Application US/10802773
 ; Publication No. US20040154055A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Sano, Hiroshi
 ; APPLICANT: Kusano, Tomonobu
 ; APPLICANT: Koizumi, Nozomu
 ; TITLE OF INVENTION: Theobromine Synthase Polypeptide of Coffee Plant and the
 ; FILE REFERENCE: Gene Encoding Said Polypeptide
 ; CURRENT APPLICATION NUMBER: US/10/802,773
 ; PRIOR FILING DATE: 2004-03-18
 ; PRIOR APPLICATION NUMBER: JP 2000-307,149
 ; NUMBER OF SEQ ID NOS: 22
 ; SOFTWARE: FastSeq for Windows Version 4.0
 ; SEQ ID NO 6
 ; LENGTH: 1304
 ; TYPE: DNA
 ; ORGANISM: Coffea arabica
 US-10-802-773-6

Query Match 10.6%; Score 151.6; DB 17; Length 1304;
 Best Local Similarity 51.9%; Pred. No. 5.5e-27;
 Matches 464; Conservative 0; Mismatches 394; Indels 36; Gaps 4;

QY 80 GAAGGTGAACGAAGTGTGTTCAATGAACAGGGGGAAGGAAGATGTTATGACAA 139
 Db 46 GAGACTCCAGAAAGTCTGATATGATGAGGCGAAGGAGTGAAGCTAGCCAAAGA 105
 QY 140 CTCTTCTTCAACGCAAAATGAGCTTCATATGAGCAGCCAGCGCTAGAAATGACAGTTGA 199
 Db 106 TTGATCTTCAATCAATGAGTGTCTCCCAAGTGAAACCTGTCTTGAACATGAGTGAG 165
 QY 200 AACTCTTCTTCCAGAGATTTCCACCTTC-----AAGCTTTAAGCAGGAGCTGGG 253
 Db 166 GGAATGTTGCGGGCCAACTTGGCCAAATCAACAGATGATTAAGTTGGAGATTGGG 225
 QY 254 TTGTGAGGAGGGGTCCAAACATGCGAGTATTTCTACATCAAGAGATGATGAAA 313
 Db 226 ATCCGCTTCCGAGCAACACATTTTAAAGATTGCGAGCATTTGACAAAGTATGACAA 285
 QY 314 GAAATGAGGAGATGATTTGCAAACTGGAAC-----TTGAGGTTTACTTGAATGA 367
 Db 286 AGTTAGGCAAGAAATGAAGATGATTTGAACGTCACCACTTTAGTTTTTCTGACTGA 345
 QY 368 TCTTTTGGAAATGATTTCAATACCTCTTCAAAAGGCTGTGCTGAG-----416
 Db 346 TCTTTTCCAAATGATTTCAATTTGGTTTTCATGTTCTGCAAGTTTCAACGCAAACT 405
 QY 417 -GTATTTGTAACAATGAGGAAAGTTCCGTGTTATGATGAGGAGTACCGGGGCTTT 475
 Db 406 TGAGAAAGAAATGAGGCAAGATGATGCTGCTTAATAGCCGCAATGCTGGCTCTTT 465
 QY 476 CCATGCGCGGCTTTTCTCTGTAACAGCTTACATTTAGTTTCTCTTACAGTTTGA 535
 Db 466 CCAAGGCACTCTTCCCGAGAGTCAATGACATTTTATACACTCTTTCAAGCTTTA 525
 QY 536 TTGCTTACTCAGGCAACAAAGGACTCAGACGAGAAAGGCTTGGCATTAACAAGGG 595
 Db 526 ATTTTATCCAGGTTCCAGCGGTTTGGTGACTGAATTTGGGATCACTGCAACAAAG 585

QY 596 GAAGATTTACATATCAAAAGCAAGCCCTCTGTTGTAGAGAGCTTACTTATCAATT 655
 Db 586 GACATTTTACTCTTCCAAAGCAAGTCTCCGCCCTCCAGAAAGGATATTTGATCAATT 645
 QY 656 TCATGAAGATTTACAAATTTTCTCAATGCTAGATCCCAAGAGGTGTTCCAAATGGTTG 715
 Db 646 TACGAAAGATTTTACCAATTTTGAAGATGTTGTTGGAAGATTTGCTTCAAGCGGCG 705
 QY 716 TATGTTGATATATCTGCGTAGGCAATGTTGATCTTCAACATGACAGAGCTGCTT 775
 Db 706 AATGCTCTTACTTTCATTTGCAAGAGAT-----GAATTCAGCGCCCGAA 753
 QY 776 TACTTGGGAACATATAGCTATGAGCAATGCTGAAATGTTTCAAGAGATTTAGATGA 835
 Db 754 TACATGACCTTACTTGAATGAGCAATTAACGACTTGTTGTTGAGGACATCTGAGGA 813
 QY 836 AGATAATTAGACCTTCATATATACCAGTATTTTGCATCACTTGAGAGAGTGAAGA 895
 Db 814 AGAAAAATTGACAGTTTCAATGTTCAATCTATGACGTTCTAGTAGAAGATTAAGTG 873
 QY 896 TATAGTGAGAGGAGCGATCATCAATTTGATCATATATAGAGGGTTGATCT 949
 Db 874 CATAGTTGAGGAGGAGGTTCTTTTGAATTTTGTACTTGAGACATTTTAAGCT 927

RESULT 14

US-09-971-020-8
 ; Sequence 8, Application US/09971020
 ; Patent No. US20020108143A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Sano, Hiroshi
 ; APPLICANT: Kusano, Tomonobu
 ; APPLICANT: Koizumi, No. US20020108143A1omn
 ; TITLE OF INVENTION: Theobromine Synthase Polypeptide of Coffee Plant and the Gene
 ; FILE REFERENCE: Encoding Said Polypeptide
 ; CURRENT APPLICATION NUMBER: US/09/971,020
 ; PRIOR FILING DATE: 2001-12-18
 ; PRIOR APPLICATION NUMBER: JP 2000-307,149
 ; NUMBER OF SEQ ID NOS: 8
 ; SOFTWARE: FastSeq for Windows Version 4.0
 ; SEQ ID NO 8
 ; LENGTH: 1316
 ; TYPE: DNA
 ; ORGANISM: Coffea arabica
 US-09-971-020-8

Query Match 10.6%; Score 151.2; DB 9; Length 1316;
 Best Local Similarity 51.1%; Pred. No. 7e-27;
 Matches 534; Conservative 0; Mismatches 473; Indels 39; Gaps 6;

QY 80 GAAGGTGAACGAAGTGTGTTCAATGAACAGGGGGAAGGAAGATGTTATGACAA 139
 Db 47 GAGACTCCAGAAAGTCTGAGATGATGAGGCGAAGCGATGACAGCTAGCCAAAGA 106
 QY 140 CTCTTCTTCAACGCAAAATGAGCTTCATATGAGCAGCCAGCGCTAGAAATGACAGTT-- 197
 Db 107 TTGAGCTTACATCAATGAGTGTCTGCGCAAGTGAAACCTGTCTTGAACATGAGTGACG 166
 QY 198 GAAACTCTCTTCCAGAGATTTCCACCTTCA-----GCTTTAAGCAGGAGGCTTGGG 226
 Db 167 GGAATGTTGCGGGCCAACTTCCCAACATCAACAAAGTCAATTAAGTTGGGATTGGG 253
 QY 254 TTGTGAGGAGGGTCCAAACATTCGCAAGTATTTCTACATCAAGAGATGATGAAA 313
 Db 227 ATCCGCTTTCGAGCAACACACTTTTAAAGCTTTCGAGCATTTTCCAAAGTATTTGACAA 286
 QY 314 GAAATGAGGAGATGAAATTTGCAAACTGGAAC-----TTGAGGTTTACTTGAATGA 367
 Db 287 AGTTGCGCAGAAAGAAAGATGAAATTTGAACGTCACCACTTCAAGATTTTCTGAAATGA 346

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Qy 368 TCTTTTGGAAATGATTTCAATATACCTCTTTCAGAGGCGCTGCTGTA----- 415
Db 347 TCTTTTCCCAATGATTTCAATTCGGTTTCAAGTTGCTGCCAGCTTCTACCGAACT 406
Qy 416 GGTATTTGGTAACAAAATGTGAGAAAGTTCCGTTATGTATGTAGAGATACCGGGCTTT 475
Db 407 TGAGAAAGAAATGAGCGCAAAATGAGATCGCTTAATAGGGGCAATGCCGGCTTT 466
Qy 416 CCATGCGCGGCTTTTCTCCGTAACAGCTTATAGTTCATCTTCTTAAGTTCA 535
Db 467 CTACGACGAGCTTCTCCCGAGAGTCCATGATTTTTCACCTCTTGTACTGTCTCA 526
Qy 536 TTGCTTACTCAGCAGCCAAAGAGCTCAAGCAGAGAGAGGCTTGACATTAACAGG 595
Db 527 ATGTTATCTCAGTTCTTCCAGGCTTTGGTGACTGAATTTGGGATCAGTACGAAG 586
Qy 596 GAAGATTTACATATCAAAAGACAGGCTCTGTTGTAGAGAGAGCTTACTTAAT 655
Db 587 GAGCATTTACTCTTCAAAAGACAGTCTGCTCCGTCAGAGGCAATTTGATCAAT 646
Qy 656 TCATGAAGATTTCAAAATGTTTCTGATGCTAGATCCCAAGAGGCTTCCAAATGTTG 715
Db 647 TACGAAAGATTTTACCAATTTCTAAGATTCATTCGGAAGGTTTTCATGATGCGG 706
Qy 716 TATGCTGTGATCTTCTGCTGAGGCAATGTTCTGATCCTTCAAGCAGAGCTGCT 775
Db 707 AATGCTCTTACTTTCATTTGTAAGAGTT-----GAAATGAGCGCCGAA 754
Qy 776 TACTTGGAACTATTAGCTAGTGGCAATGCTGAATTTGTTTCAAGGATTTGATGATGA 835
Db 755 TGCCATTAACCTTACTGAGATGAGCAATTAACGACTTGGTTGTAGAGGACATCTGAGGA 814
Qy 836 AGATAAATTAAGACACTTCAATATATCCAGCTAATTTTGATACCTTGAAGAGTGAAGA 895
Db 815 AGAAAAATTTGATTTTCAATCTTCACTTCAATATACCTTCAAGAGAAAGTAAAGT 874
Qy 896 TATAGTGAGAGAGGAGATCATTCACAAATGATGATATAGAGGGTTT---GATCTTGA 952
Db 875 CATAGTTAGAGAGAGGATCTTTGAAATTTTAACCTGAGAGACTTTTAAGTCTTTA 934
Qy 953 TAGCTTGAAGATGACAGAGATGATTAATGGGTTAGAGGGAAGGTTTACCAAGTTGT 1012
Db 925 CGATCTGGCTTCTCTAATGACGATGAACATATTAAGAGAGTATGTTGATCTTCGT 994
Qy 1013 CAGGCTTACAGAGGCTTAATTTCAACAGATTTGACCTGAATCATGGAACAACT 1072
Db 995 TAGAGCAATTTAGAACCAATCTCGCAAGTCAATTTTGAAGAGCTATTAATCTGACAT 1054
Qy 1073 ATATGCAAAATTCATCTCACTATTTAG 1098
Db 1055 ATTCCACAGGTTTGCAGAGCATGCG 1080

RESULT 15
US-10-623-854A-2
; Sequence 2, Application US/10623854A
; Publication No. US20040128709A1
; GENERAL INFORMATION:
; APPLICANT: Uefuji, Hirotaka
; APPLICANT: Sano, Hiroshi
; APPLICANT: Kozumi, Nozumu
; APPLICANT: Shimmyo, Atsuhiko
; TITLE OF INVENTION: Composite utilization of a group of genes in biosynthetic pathway
; FILE REFERENCE: KSM-0216
; CURRENT APPLICATION NUMBER: US/10/623,854A
; NUMBER OF SEQ ID NOS: 11
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 2
; LENGTH: 1316
; TYPE: DNA
; ORGANISM: Coffee Arabica

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; FEATURE:
; NAME/KEY: CDS
; LOCATION: (45)..(1163)
; PUBLICATION INFORMATION:
; DATABASE ACCESSION NUMBER: AB048793
; ENTRY DATE: 2000-09-11
US-10-623-854A-2

Query Match 10.6%; Score 151.2; DB 17; Length 1316;
Beef Local Similarity 51.1%; Pred. No. 7e-27; Indels 39; Gaps 6;
Matches 534; Conservative 0; Mismatches 473;

Qy 80 GAAGTGAACGAAGTGTGTTTCAATGACAGGAGGAGAGAAAGTATGACAAAA 139
Db 47 GAGGCTCAAGAAAGTCTGGCGATGAATGAGAGGAGGAGGATTAACCTAGCCAAAGA 106
Qy 140 CTCTTCTTACAGCAAGTGGCTCAATGGCACAGCGCTTGAAGAAATGCAATT-- 197
Db 107 TTCAAGCTTACATCAATCACTGCTTCTGCGCAAGGTAACCTGCTTGAACAATGCGTACG 166
Qy 198 GAAACTCTTCTCAGAGATTTCCAGCTTCA-----GCTTAAAGGAGGAGCTTGGG 253
Db 167 GGAATTTTGGCGGCTCACTTCCCAATCAACAAGTCAATTAAGTTGGGATTTGGG 226
Qy 254 TTGTCAGCGGCTCCAAACACATTCGACGATTTCTACATCAAGATGATGAAAA 313
Db 227 ATGCGCTTCTGAGCAACCAACACTTTTAACAGTTGCGGACATTTGCCAAAGTATGACA 286
Qy 314 GAATGACAGGAATGAATTCGCAACACTGGAAC-----TTCAAGTTTACTTGATGA 367
Db 287 AGTTGGCCAGAAAAGAAATGAATTAAGTGAACGTCACCAATTCAGATTTTCTGAAATGA 346
Qy 368 TCTTTTGGAAATGATTTCAATACCTCTTCAAGGCGCTGCTGTA----- 415
Db 347 TCTTTTCCCAATGATTTCAATTCGTTTCAAGTTGCTGCCAAGCTTCTTACCGCAACT 406
Qy 416 GGTATTTGGTAACAAAATGTGAGAAAGTTCCGTTATGTATGTAGAGATACCGGGCTTT 475
Db 407 TGAGAAAGAAATGAGCGCAAAATGAGATCGCTTAATAGGGGCAATGCCGGCTTT 466
Qy 476 CCATGCGCGGCTTTTCTCCGTAACAGCTTACATTTAGTTAATCTTCTTACAGTTTCA 535
Db 467 CTACGACGAGCTTCTCCCGAGAGTCCATCATTTTTAACATCTTGTACTGCTTCA 526
Qy 536 TTGCTTACTAGAGACCAAAAGACATCAACAAGAGAGGCTTGCAATTAACAGAGG 595
Db 527 ATGTTATCTCAGGTTCTTACCGGTTGTGTGATCTGAATTTGGGATCACTAGCAACAAAGG 586
Qy 596 GAAGATTTACATATCAAAAGACAGGCTCTGTTGTAGAGAGGCTTACTTATCTCAAT 655
Db 587 GAGCATTTACTTCTCCAAAGCAAGTCTCTGCTCCGTCAGAGAGCATATTTGATCAAT 646
Qy 656 TCATGAAGATTTCAAAATGTTTCTCAATGCTAGATCCCAAGAGGCTTCCAAATGTTG 715
Db 647 TACGAAAGATTTTACCAATTTCTTAAGATTCATTCGGAAGGTTGTTTCAATGCGCG 706
Qy 716 TATGCTGTGATCTTCTGCTGAGGCAATGTTTCAATCTTCAAGCAGAGAGCTGCT 775
Db 707 AATGCTCTTACTTTCATTTTGAAGAGTT-----GAAATGAGCGCCGAA 754
Qy 776 TACTTGGAACTATTAGCTAGTGGCAATTTGTTTCAAGGATTTGATGATGATGA 835
Db 755 TGCCATTAACCTTACTGAGATGAGCAATTAAGAGCTTGTGTAGAGGACATCTGAGAGA 814
Qy 836 AGATAAATTAAGACACTTCAATATACCAAGCTATTTTGCATCACTTGAAGAGTGAAGA 895
Db 815 AGAAAAATTTGATTTTCAATCTTCACTTCAATATACCTTCAAGAGAAAGTAAAGT 874
Qy 896 TATAGTGAGAGAGGAGATCATTCACAAATGATGATATTAAGGGGTTT---GATCTTGA 952
Db 875 CATAGTTAGAGAGAGGTTCTTTGAAATTTTAATCTGAGAGACTTTTAAGTCTTTA 934
Qy 953 TAGCTTGAAGATGACAGAGATGATTAATGGGTTTGAAGGGAAGGTTTACCAAGTTGT 1012

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Db 935 CGATGCTGGCCTTCTCTATTGACGATGAACATATTAAAGCAGAGTATGTCATCTTCCGT 994
 QY 1013 CAGGGCCCTTCACAGAGCCTTATTAATTTCAAACCAAGTTTGAAGTGAATCATGGAACAAGT 1072
 Db 995 TAGACAGTTTACGAAACCATCTCGCAAGTCATTTTGGAGAAAGCTATTACTGACAT 1054
 QY 1073 ATATGACAAATTCACTCACTTGTAG 1098
 Db 1055 ATTCCACAGGTTTGGAAAGCATGCG 1080

Search completed: December 22, 2004, 22:16:04
 Job time : 1110 secs